

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF041921\  
 Data File : BF123634.D  
 Acq On : 19 Apr 2021 21:34  
 Operator : JU/CG  
 Sample : M2050-09DL2 4X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-4DL

Quant Time: Apr 20 03:05:31 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF041521.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 16 10:31:33 2021  
 Response via : Initial Calibration

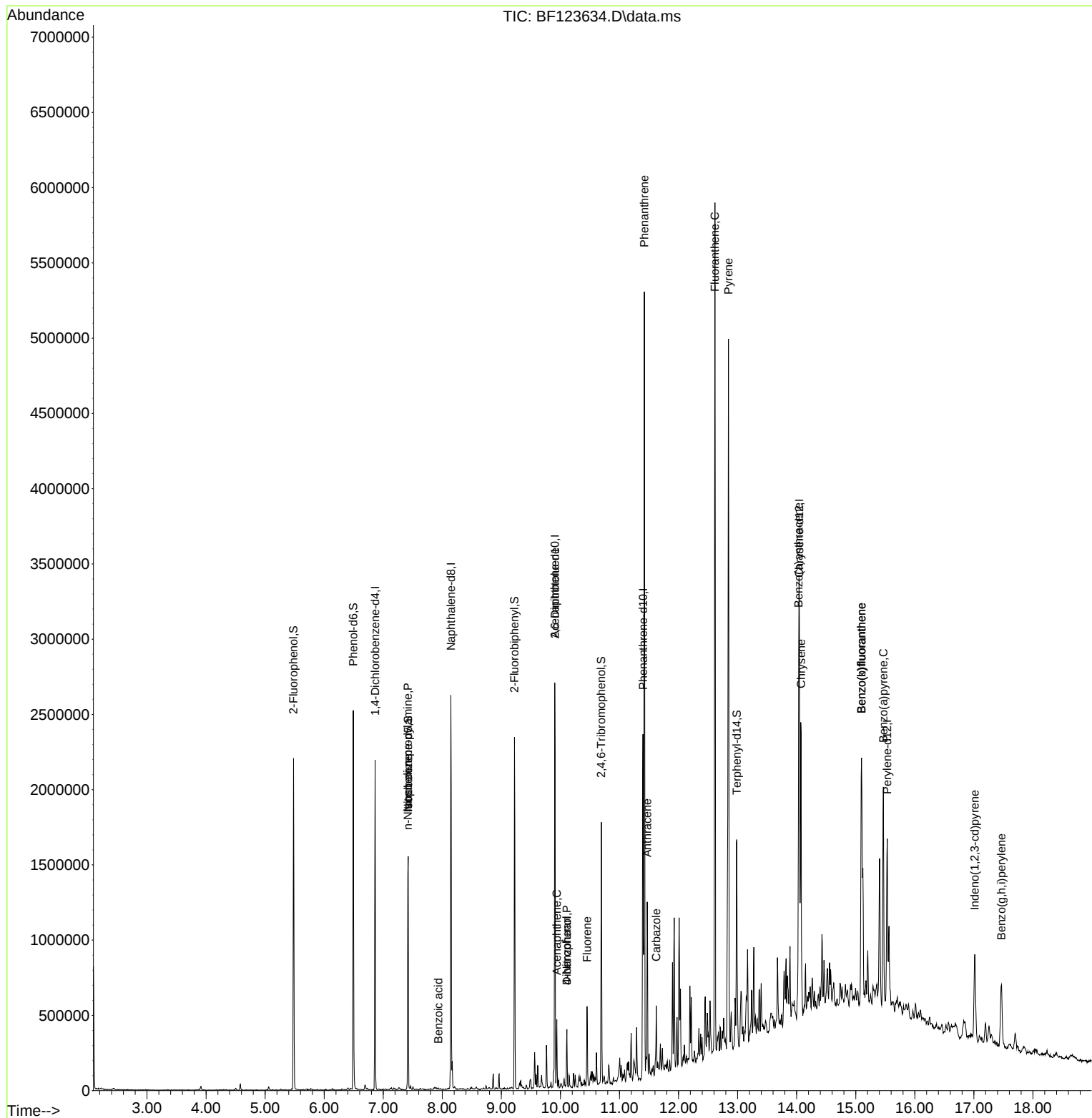
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.863  | 152  | 264027   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.145  | 136  | 993792   | 20.00 | ng    | #-0.01   |
| 39) Acenaphthene-d10          | 9.904  | 164  | 478584   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10          | 11.398 | 188  | 824595   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.045 | 240  | 569273   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12              | 15.533 | 264  | 523764   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 5) 2-Fluorophenol             | 5.481  | 112  | 463264   | 28.36 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.492  | 99   | 618561   | 27.33 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.422  | 82   | 438856   | 20.30 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.692 | 330  | 151880   | 28.02 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl          | 9.222  | 172  | 620548   | 19.33 | ng    | -0.02    |
| 79) Terphenyl-d14             | 12.986 | 244  | 445162   | 15.20 | ng    | -0.01    |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.416  | 70   | 58404    | 3.89  | ng    | # 77     |
| 25) Isophorone                | 7.422  | 82   | 436943   | 10.42 | ng    | # 69     |
| 32) Benzoic acid              | 7.933  | 122  | 1551     | 4.69  | ng    | # 12     |
| 51) 2,6-Dinitrotoluene        | 9.904  | 165  | 65794    | 9.06  | ng    | # 12     |
| 52) Acenaphthene              | 9.939  | 154  | 80536    | 2.72  | ng    | 97       |
| 55) Dibenzofuran              | 10.110 | 168  | 103609   | 2.44  | ng    | 96       |
| 56) 4-Nitrophenol             | 10.110 | 139  | 39129    | 6.07  | ng    | # 1      |
| 58) Fluorene                  | 10.451 | 166  | 130365   | 3.91  | ng    | 99       |
| 71) Phenanthrene              | 11.421 | 178  | 1748879  | 40.64 | ng    | 99       |
| 72) Anthracene                | 11.468 | 178  | 404228   | 9.40  | ng    | 100      |
| 73) Carbazole                 | 11.621 | 167  | 153709   | 3.58  | ng    | 98       |
| 75) Fluoranthene              | 12.615 | 202  | 2194581  | 46.40 | ng    | 99       |
| 78) Pyrene                    | 12.845 | 202  | 2001680  | 48.18 | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.033 | 228  | 932916   | 26.74 | ng    | 100      |
| 83) Chrysene                  | 14.074 | 228  | 815012   | 23.26 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.015 | 276  | 399118   | 14.28 | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 15.098 | 252  | 1313534  | 35.52 | ng    | # 96     |
| 89) Benzo(k)fluoranthene      | 15.098 | 252  | 1313534  | 39.46 | ng    | # 97     |
| 90) Benzo(a)pyrene            | 15.468 | 252  | 719668   | 24.47 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.468 | 276  | 345055   | 17.69 | ng    | 97       |

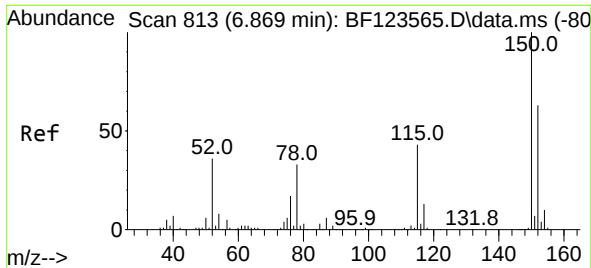
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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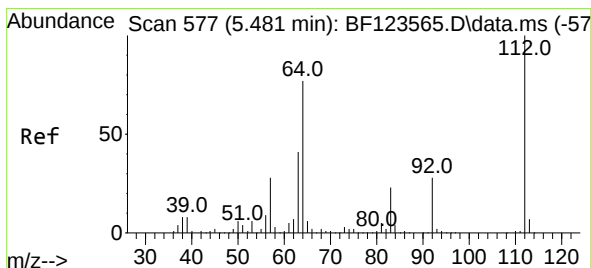
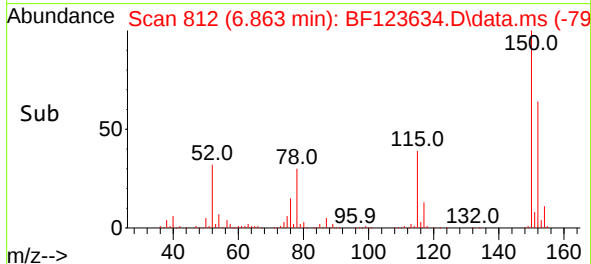
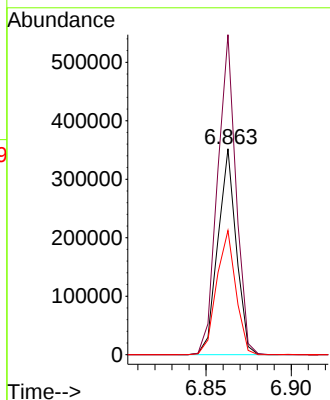
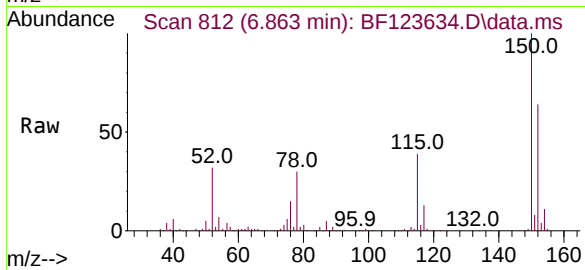




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.863 min Scan# 812  
Delta R.T. -0.006 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

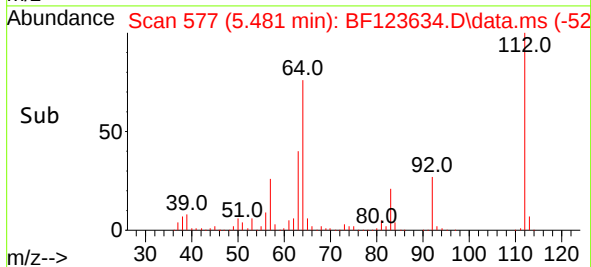
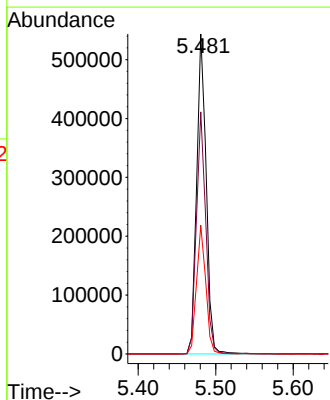
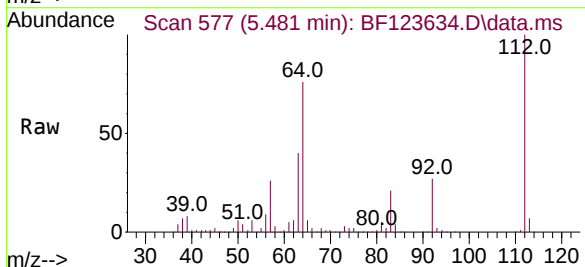
Instrument :  
BNA\_F  
ClientSampled :  
TP-4DL

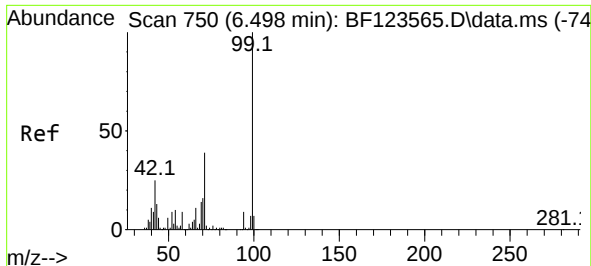
Tgt Ion:152 Resp: 264027  
Ion Ratio Lower Upper  
152 100  
150 155.4 127.0 190.6  
115 60.3 54.3 81.5



#5  
2-Fluorophenol  
Concen: 28.36 ng  
RT: 5.481 min Scan# 577  
Delta R.T. -0.000 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

Tgt Ion:112 Resp: 463264  
Ion Ratio Lower Upper  
112 100  
64 75.6 61.4 92.0  
63 40.2 33.0 49.4

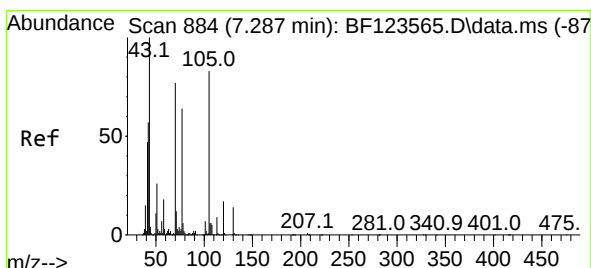
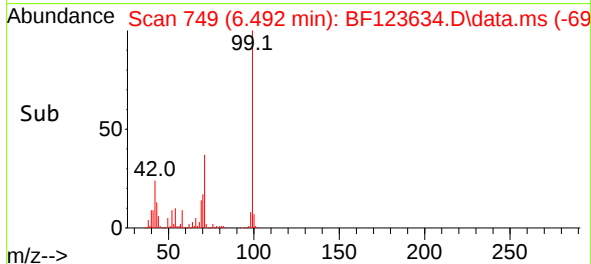
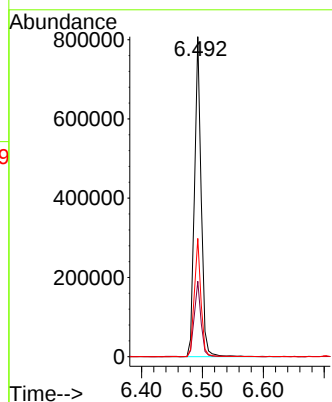
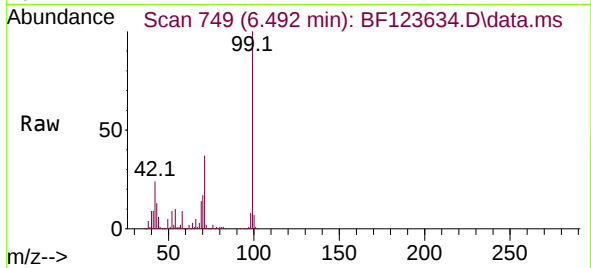




#7  
Phenol-d6  
Concen: 27.33 ng  
RT: 6.492 min Scan# 749  
Delta R.T. -0.006 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

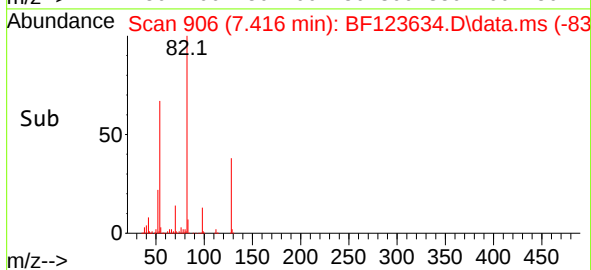
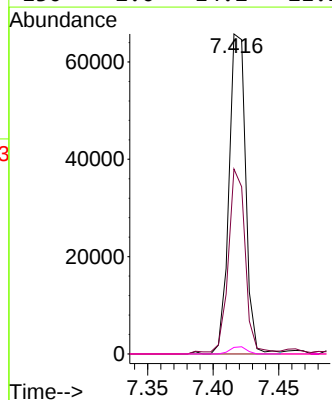
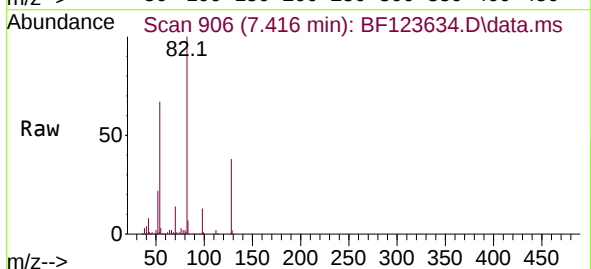
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4DL

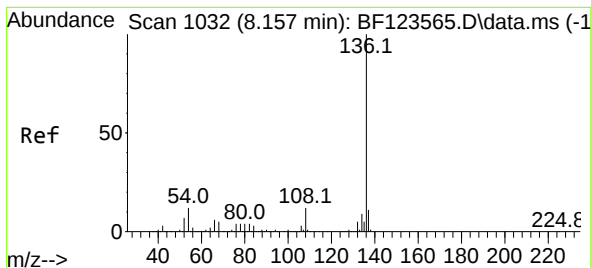
Tgt Ion: 99 Resp: 618561  
Ion Ratio Lower Upper  
99 100  
42 23.6 19.8 29.8  
71 36.9 31.1 46.7



#19  
n-Nitroso-di-n-propylamine  
Concen: 3.89 ng  
RT: 7.416 min Scan# 906  
Delta R.T. 0.129 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

Tgt Ion: 70 Resp: 58404  
Ion Ratio Lower Upper  
70 100  
42 57.8 60.1 90.1#  
101 0.0 7.4 11.2#  
130 2.0 14.2 21.2#

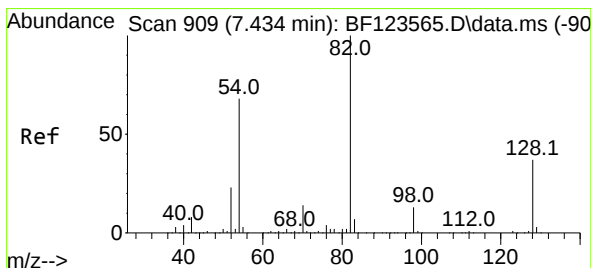
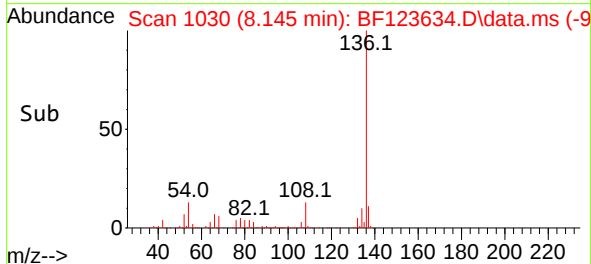
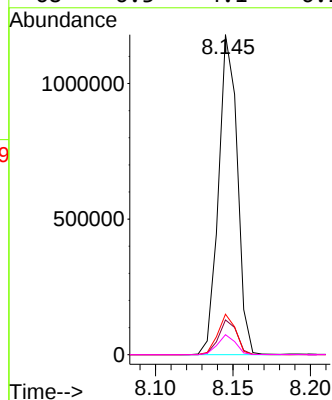
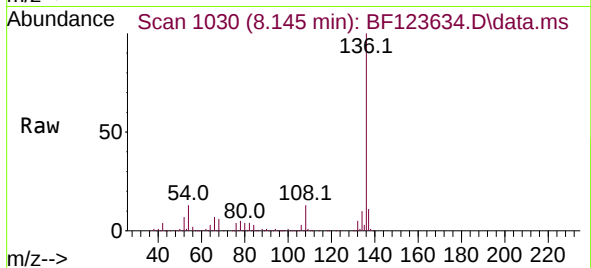




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.145 min Scan# 1030  
Delta R.T. -0.012 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

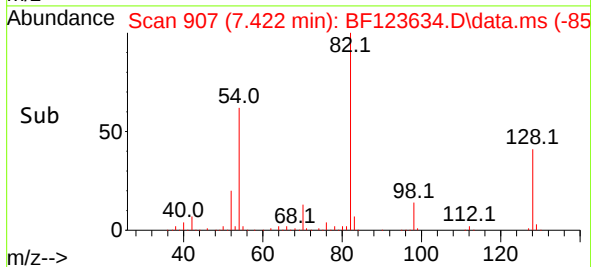
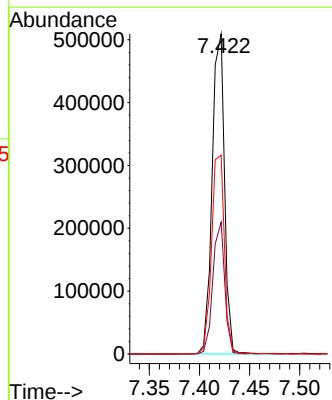
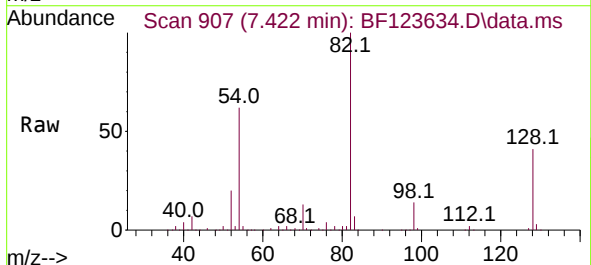
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ClientSampleId :  
TP-4DL

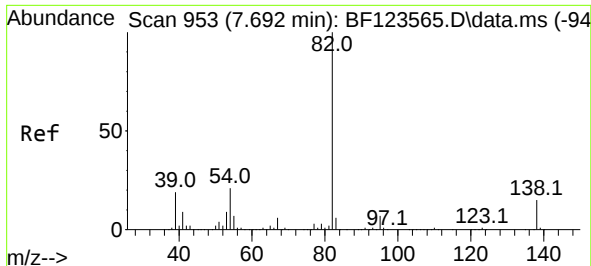
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 993792 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.8  | 8.7   | 13.1   |
| 54        | 12.7  | 9.8   | 14.6   |
| 68        | 6.3   | 4.1   | 6.1    |



#23  
Nitrobenzene-d5  
Concen: 20.30 ng  
RT: 7.422 min Scan# 907  
Delta R.T. -0.012 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 438856 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 41.2  | 29.4  | 44.2   |
| 54        | 62.1  | 54.1  | 81.1   |

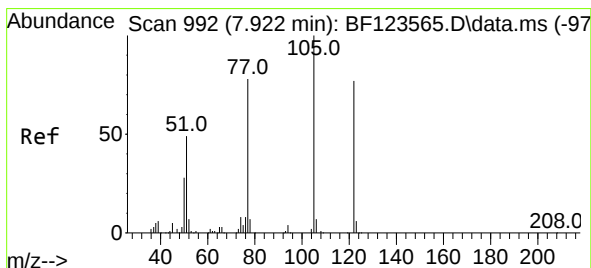
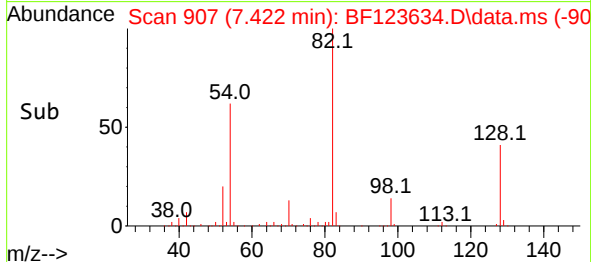
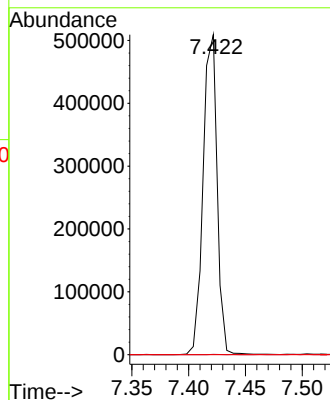
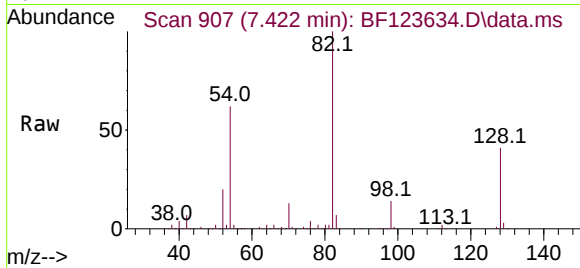




#25  
Isophorone  
Concen: 10.42 ng  
RT: 7.422 min Scan# 907  
Delta R.T. -0.271 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

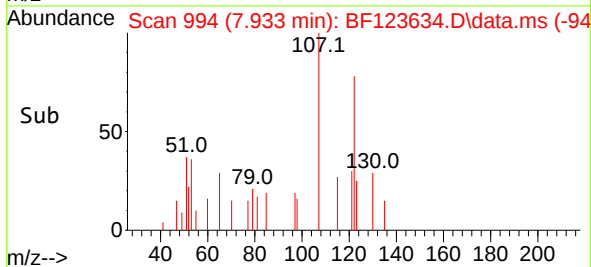
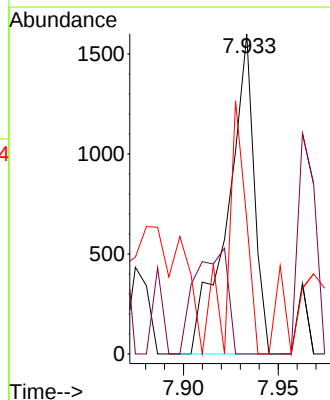
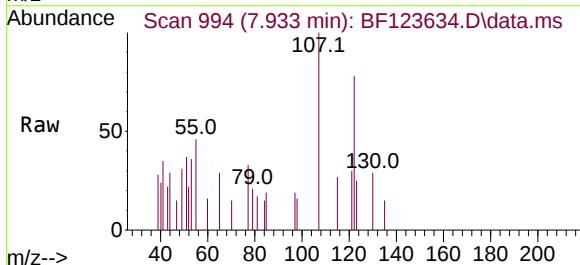
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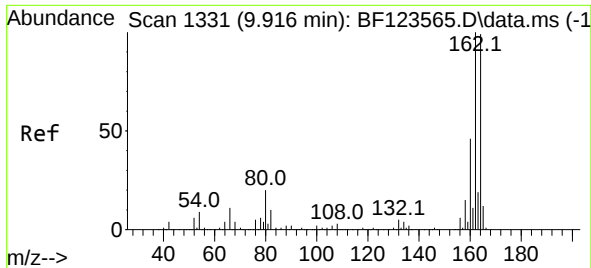
Tgt Ion: 82 Resp: 436943  
Ion Ratio Lower Upper  
82 100  
95 0.1 5.8 8.6#  
138 0.0 11.8 17.8#



#32  
Benzoic acid  
Concen: 4.69 ng  
RT: 7.933 min Scan# 994  
Delta R.T. 0.012 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

Tgt Ion: 122 Resp: 1551  
Ion Ratio Lower Upper  
122 100  
105 0.0 107.8 147.8#  
77 41.9 81.6 121.6#





#39

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.904 min Scan# 1329

Delta R.T. -0.012 min

Lab File: BF123634.D

Acq: 19 Apr 2021 21:34

Tgt Ion:164 Resp: 478584

Ion Ratio Lower Upper

164 100

162 101.6 80.7 121.1

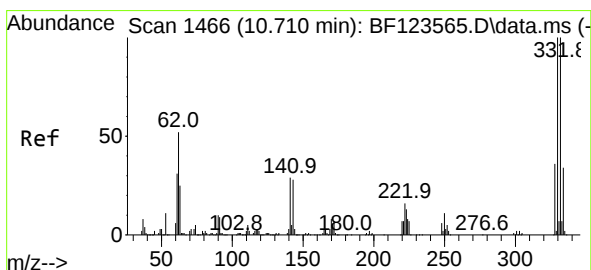
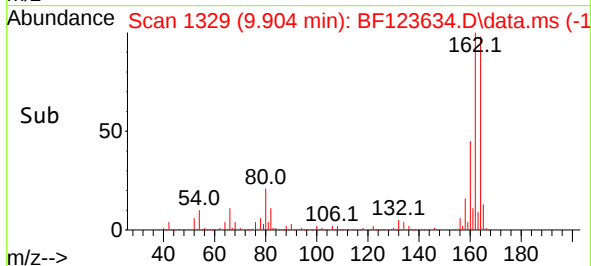
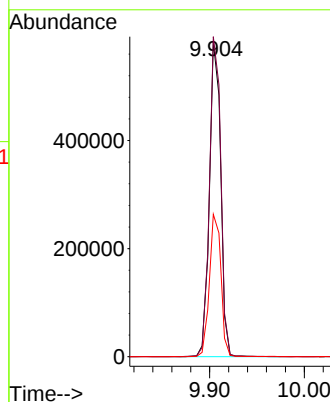
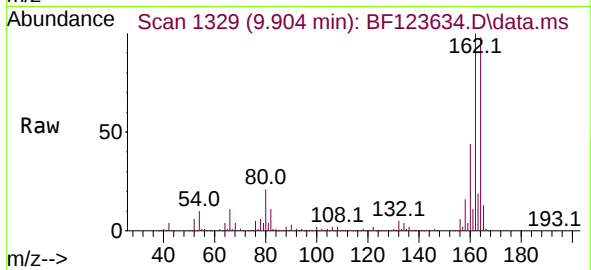
160 45.2 37.3 55.9

Instrument :

BNA\_F

ClientSampleId :

TP-4DL



#42

2,4,6-Tribromophenol

Concen: 28.02 ng

RT: 10.692 min Scan# 1463

Delta R.T. -0.018 min

Lab File: BF123634.D

Acq: 19 Apr 2021 21:34

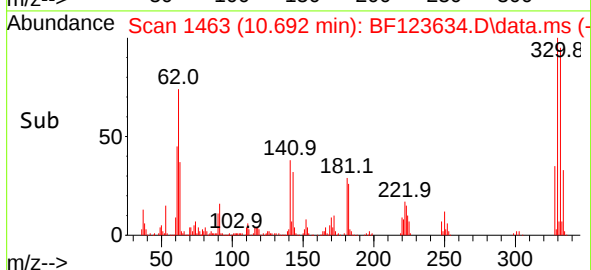
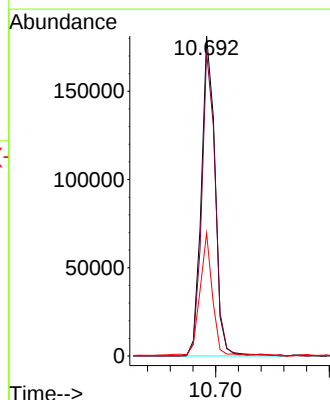
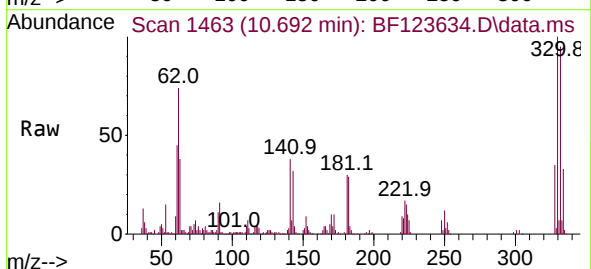
Tgt Ion:330 Resp: 151880

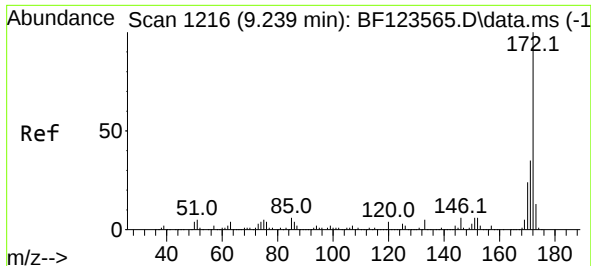
Ion Ratio Lower Upper

330 100

332 93.6 77.1 115.7

141 34.5 27.9 41.9

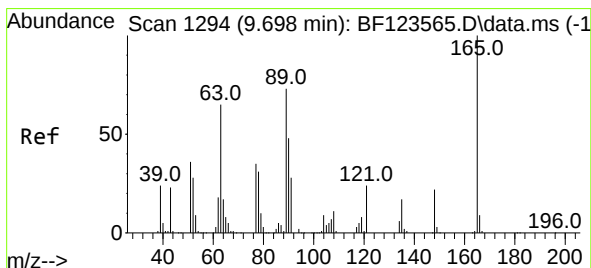
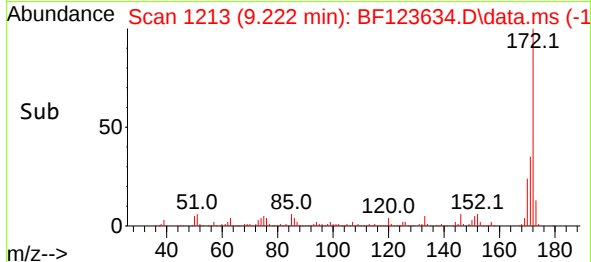
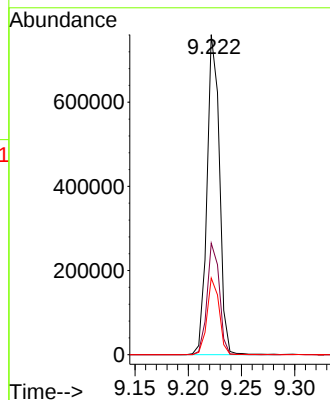
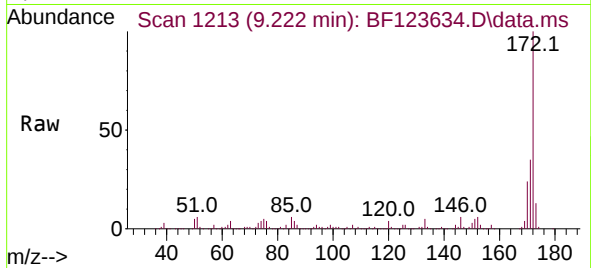




#45  
2-Fluorobiphenyl  
Concen: 19.33 ng  
RT: 9.222 min Scan# 1213  
Delta R.T. -0.018 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

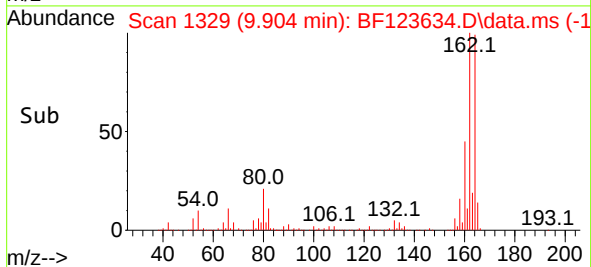
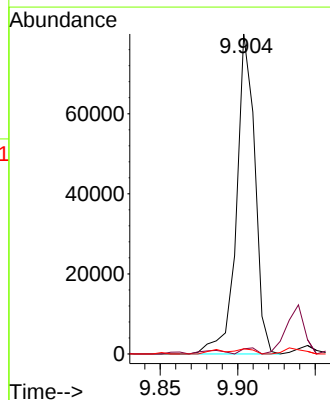
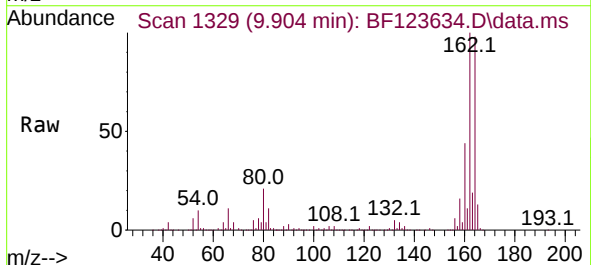
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4DL

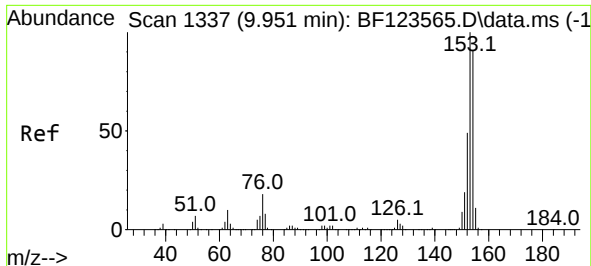
Tgt Ion:172 Resp: 620548  
Ion Ratio Lower Upper  
172 100  
171 34.9 28.1 42.1  
170 24.0 19.2 28.8



#51  
2,6-Dinitrotoluene  
Concen: 9.06 ng  
RT: 9.904 min Scan# 1329  
Delta R.T. 0.206 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

Tgt Ion:165 Resp: 65794  
Ion Ratio Lower Upper  
165 100  
63 1.6 67.7 101.5#  
89 1.6 58.8 88.2#

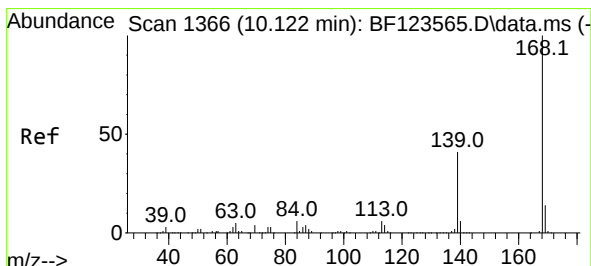
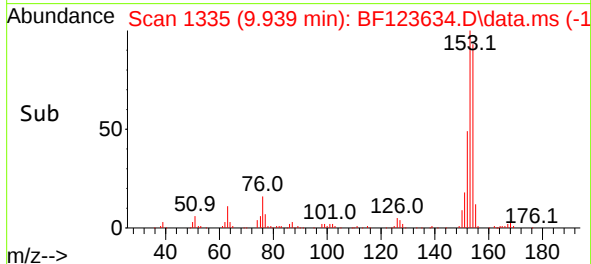
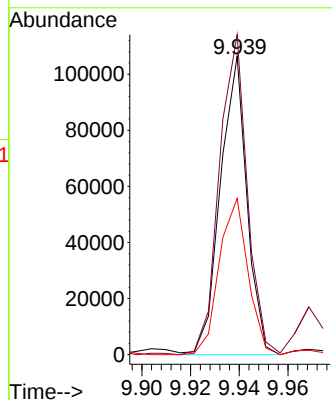
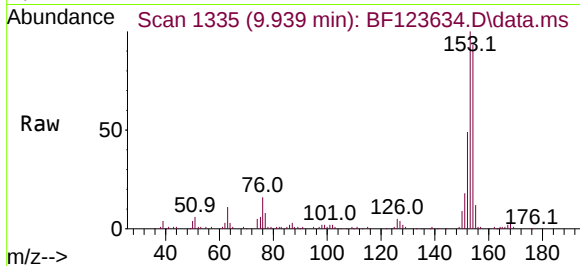




#52  
Acenaphthene  
Concen: 2.72 ng  
RT: 9.939 min Scan# 1335  
Delta R.T. -0.012 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

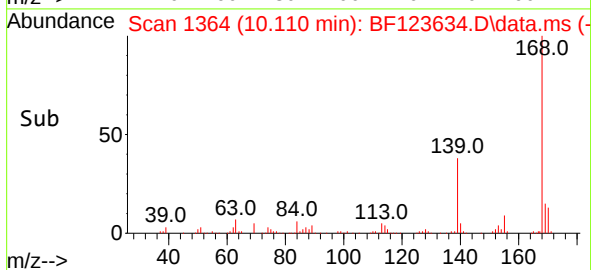
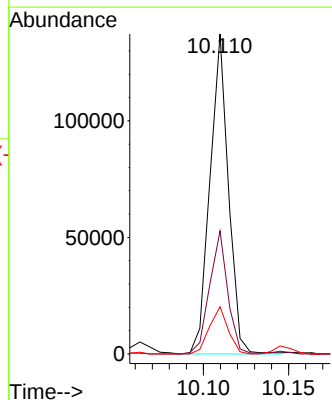
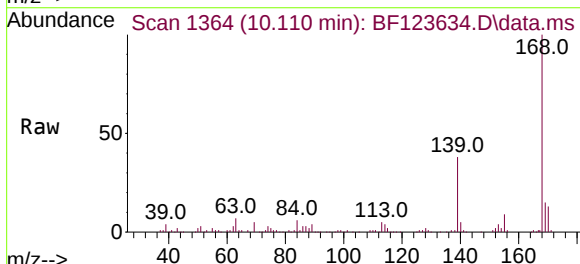
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4DL

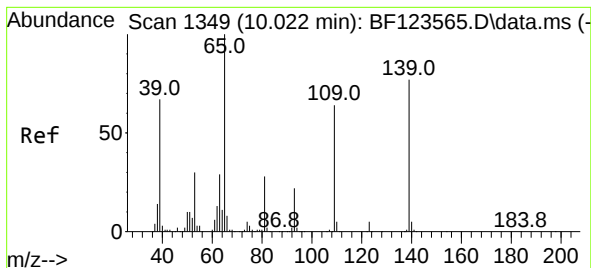
Tgt Ion:154 Resp: 80536  
Ion Ratio Lower Upper  
154 100  
153 107.1 88.1 132.1  
152 52.3 43.4 65.0



#55  
Dibenzofuran  
Concen: 2.44 ng  
RT: 10.110 min Scan# 1364  
Delta R.T. -0.012 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

Tgt Ion:168 Resp: 103609  
Ion Ratio Lower Upper  
168 100  
139 38.4 33.2 49.8  
169 14.7 10.8 16.2

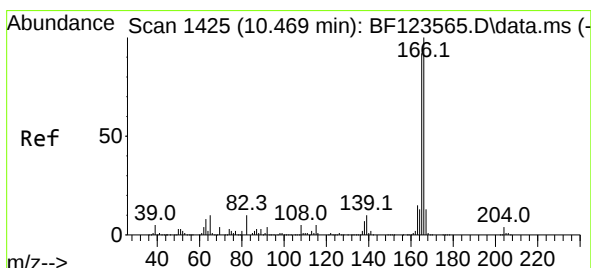
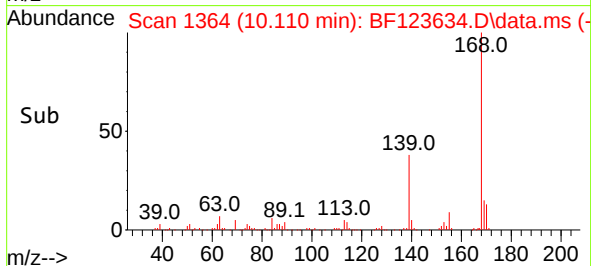
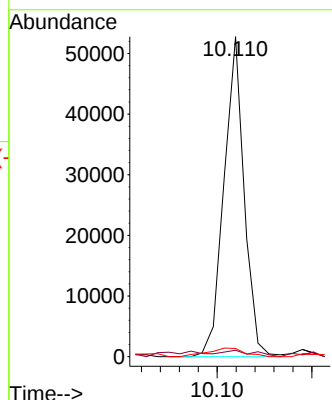
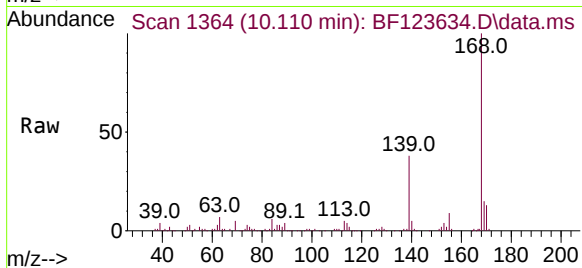




#56  
4-Nitrophenol  
Concen: 6.07 ng  
RT: 10.110 min Scan# 1364  
Delta R.T. 0.088 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

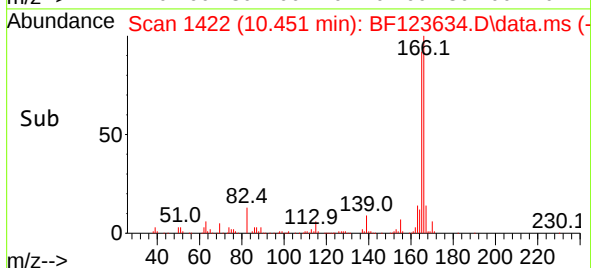
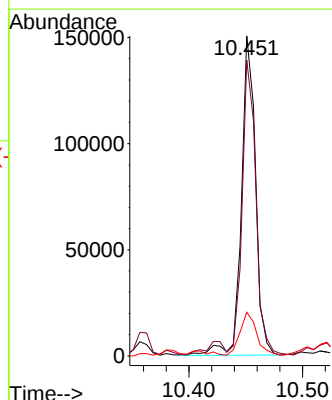
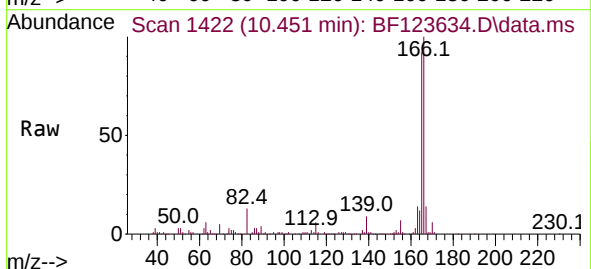
Instrument :  
BNA\_F  
ClientSampled :  
TP-4DL

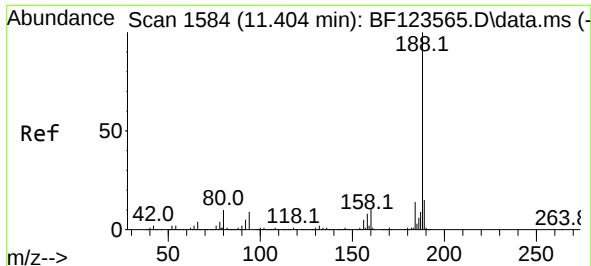
Tgt Ion:139 Resp: 39129  
Ion Ratio Lower Upper  
139 100  
109 2.0 63.2 103.2#  
65 2.6 110.0 150.0#



#58  
Fluorene  
Concen: 3.91 ng  
RT: 10.451 min Scan# 1422  
Delta R.T. -0.018 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

Tgt Ion:166 Resp: 130365  
Ion Ratio Lower Upper  
166 100  
165 92.4 73.5 110.3  
167 13.6 10.7 16.1

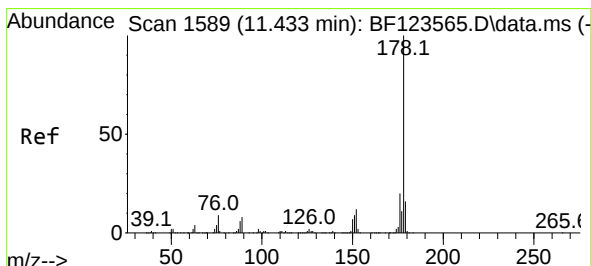
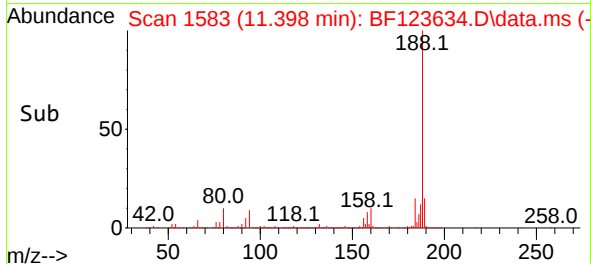
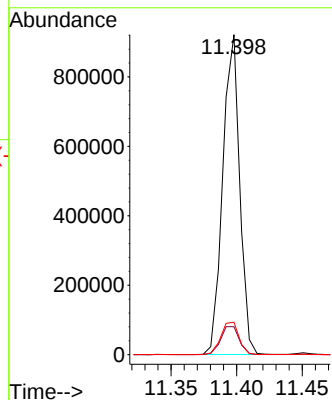
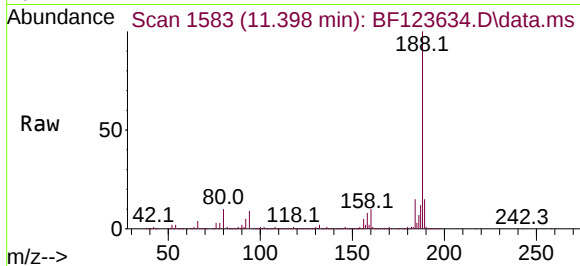




#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.398 min Scan# 1583  
Delta R.T. -0.006 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

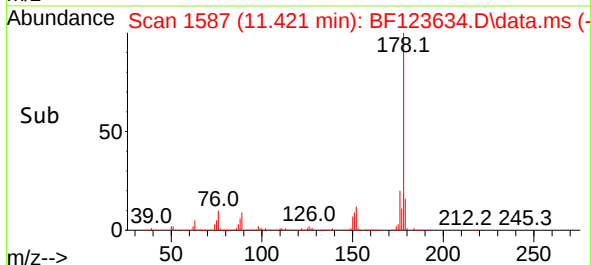
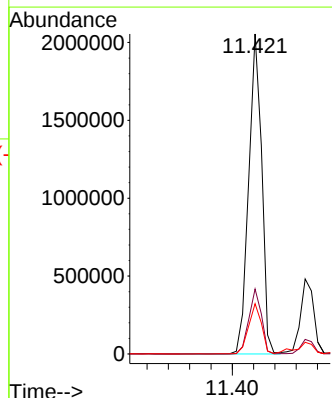
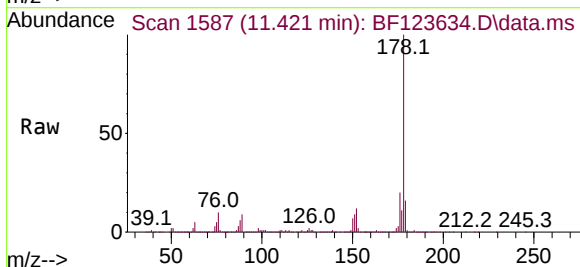
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4DL

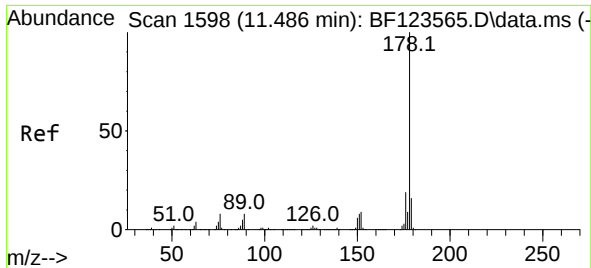
Tgt Ion:188 Resp: 824595  
Ion Ratio Lower Upper  
188 100  
94 8.7 6.9 10.3  
80 10.2 8.2 12.2



#71  
Phenanthrene  
Concen: 40.64 ng  
RT: 11.421 min Scan# 1587  
Delta R.T. -0.012 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

Tgt Ion:178 Resp: 1748879  
Ion Ratio Lower Upper  
178 100  
176 20.3 15.6 23.4  
179 15.7 12.5 18.7

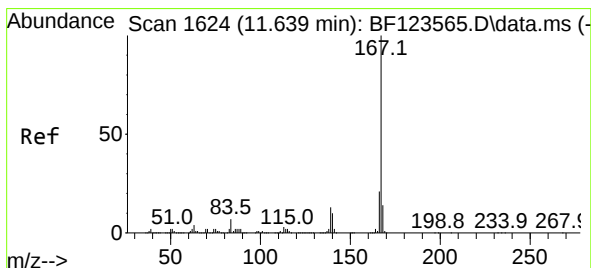
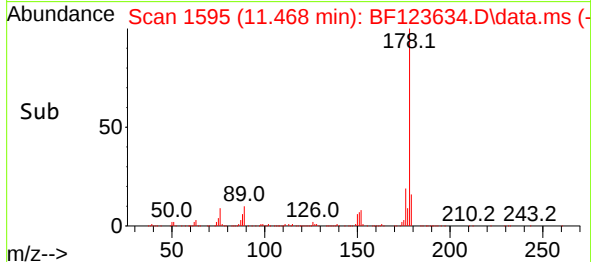
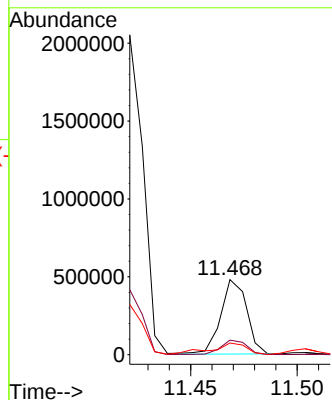
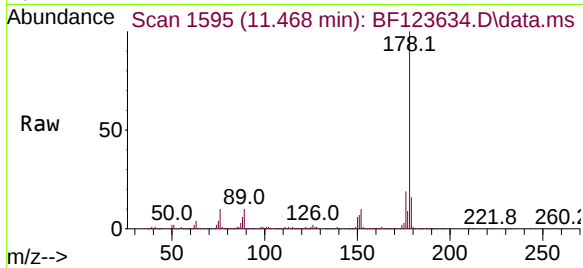




#72  
 Anthracene  
 Concen: 9.40 ng  
 RT: 11.468 min Scan# 1595  
 Delta R.T. -0.018 min  
 Lab File: BF123634.D  
 Acq: 19 Apr 2021 21:34

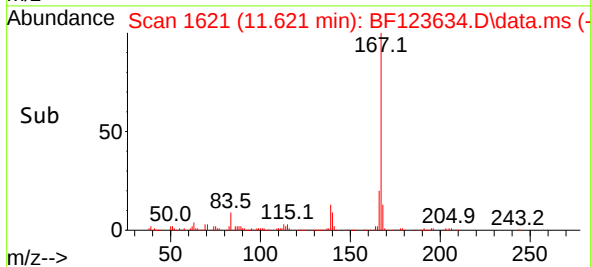
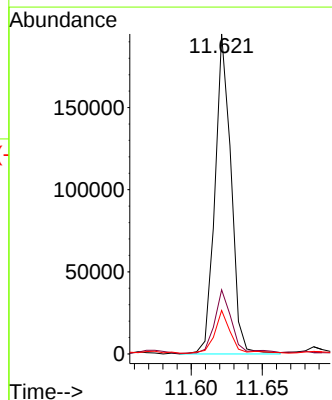
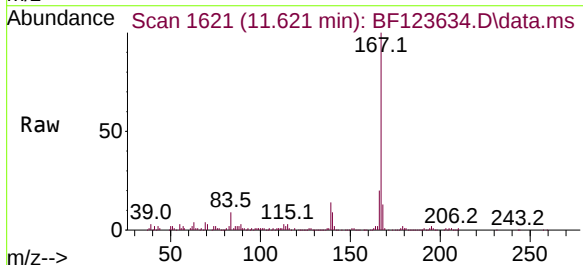
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-4DL

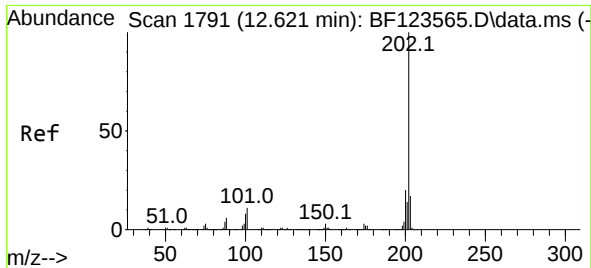
Tgt Ion:178 Resp: 404228  
 Ion Ratio Lower Upper  
 178 100  
 176 19.4 15.4 23.0  
 179 15.6 12.6 18.8



#73  
 Carbazole  
 Concen: 3.58 ng  
 RT: 11.621 min Scan# 1621  
 Delta R.T. -0.018 min  
 Lab File: BF123634.D  
 Acq: 19 Apr 2021 21:34

Tgt Ion:167 Resp: 153709  
 Ion Ratio Lower Upper  
 167 100  
 166 20.0 17.0 25.6  
 139 13.6 10.4 15.6

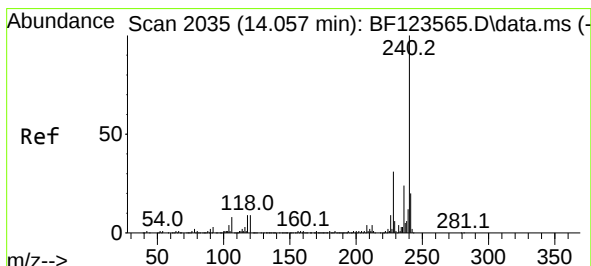
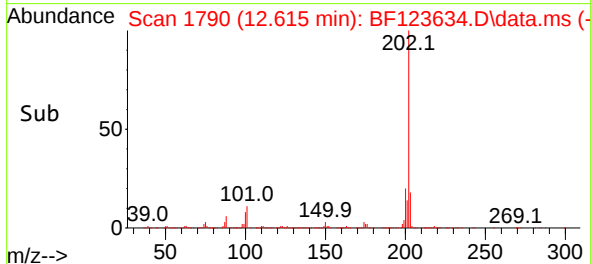
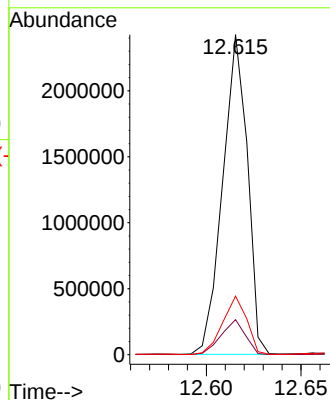
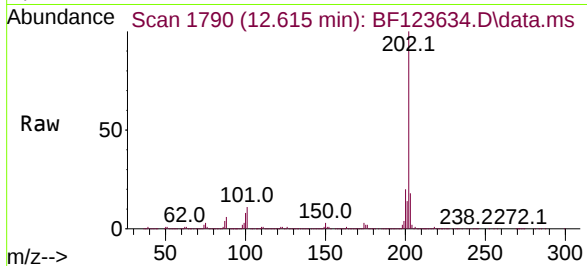




#75  
Fluoranthene  
Concen: 46.40 ng  
RT: 12.615 min Scan# 1790  
Delta R.T. -0.012 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

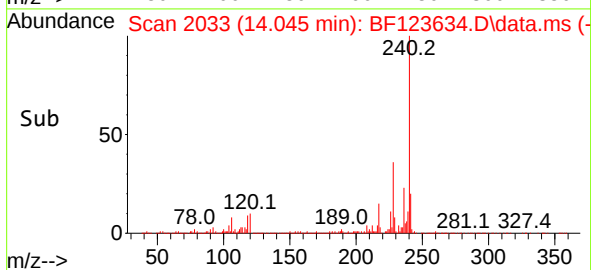
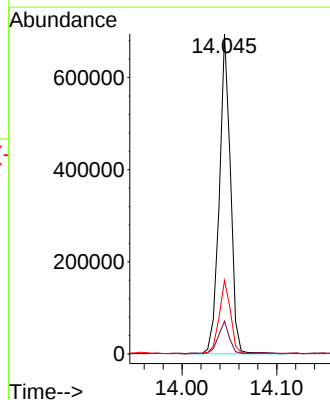
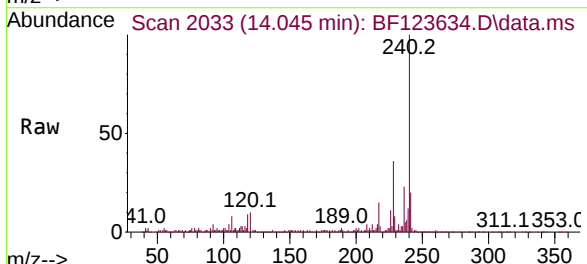
Instrument :  
BNA\_F  
ClientSampled :  
TP-4DL

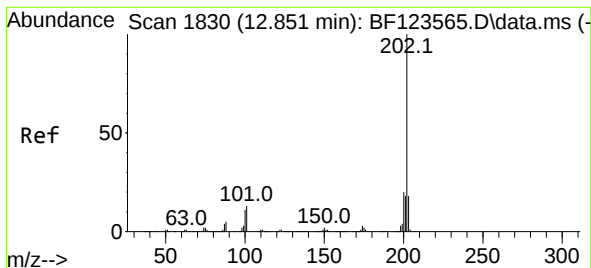
Tgt Ion:202 Resp: 2194581  
Ion Ratio Lower Upper  
202 100  
101 11.0 0.0 30.9  
203 18.3 0.0 37.5



#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.045 min Scan# 2033  
Delta R.T. -0.012 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

Tgt Ion:240 Resp: 569273  
Ion Ratio Lower Upper  
240 100  
120 10.3 7.2 10.8  
236 23.0 19.0 28.4





#78

Pyrene

Concen: 48.18 ng

RT: 12.845 min Scan# 1829

Delta R.T. -0.012 min

Lab File: BF123634.D

Acq: 19 Apr 2021 21:34

Tgt Ion:202 Resp: 2001680

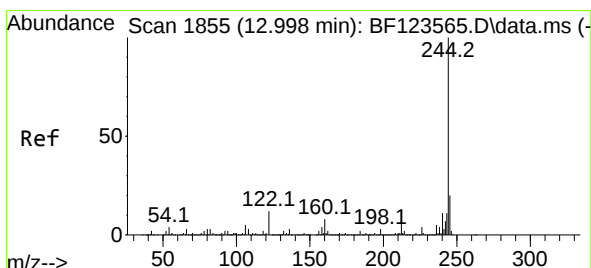
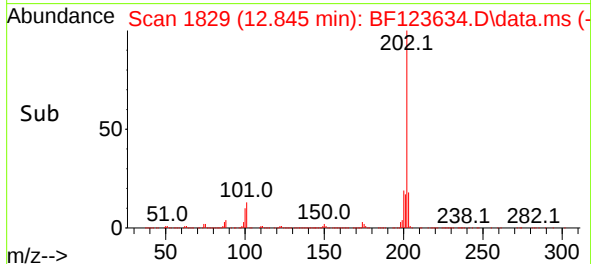
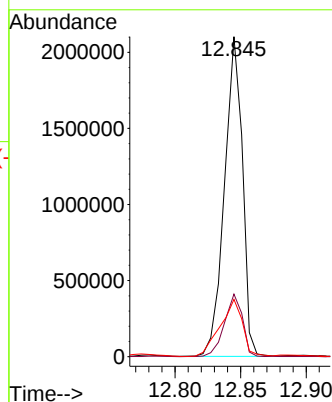
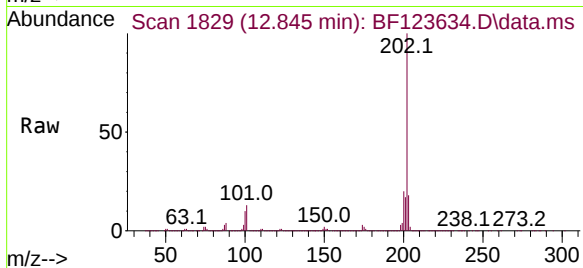
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 19.5  | 16.1  | 24.1  |
| 203 | 17.9  | 14.8  | 22.2  |

Instrument :

BNA\_F

ClientSampleId :

TP-4DL



#79

Terphenyl-d14

Concen: 15.20 ng

RT: 12.986 min Scan# 1853

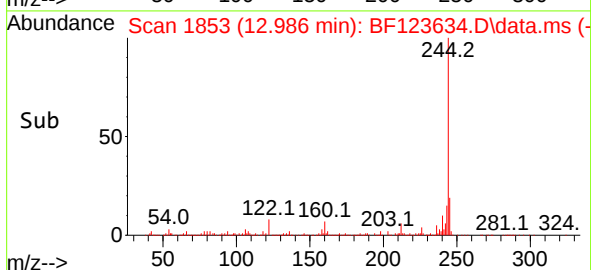
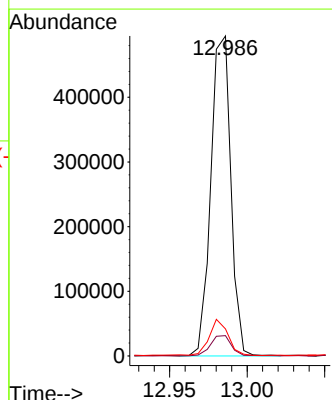
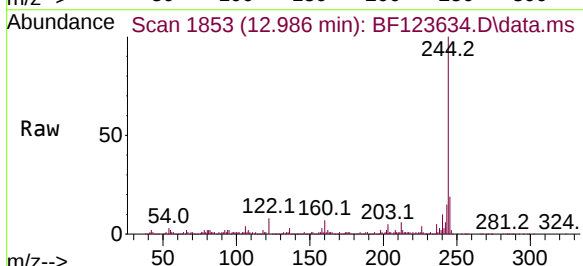
Delta R.T. -0.012 min

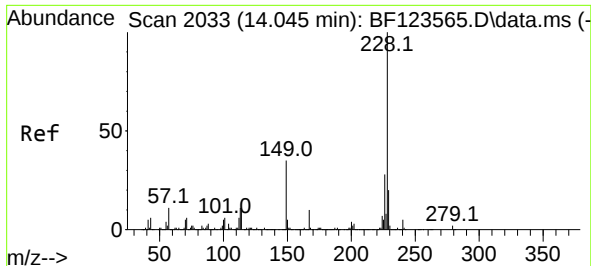
Lab File: BF123634.D

Acq: 19 Apr 2021 21:34

Tgt Ion:244 Resp: 445162

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 6.4   | 5.7   | 8.5   |
| 122 | 8.4   | 9.7   | 14.5# |

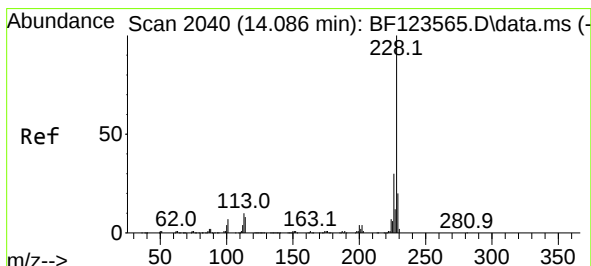
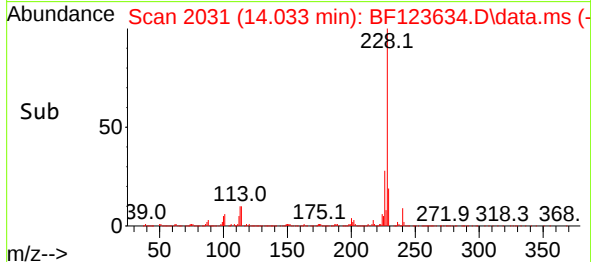
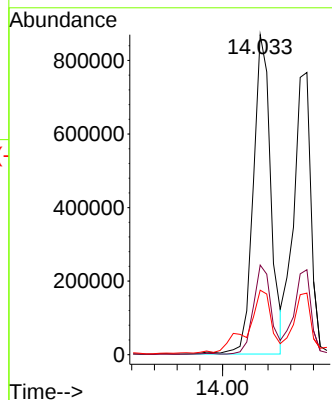
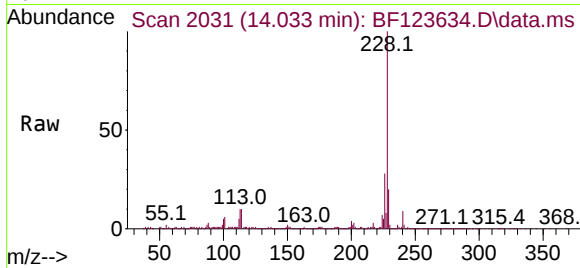




#81  
Benzo(a)anthracene  
Concen: 26.74 ng  
RT: 14.033 min Scan# 2031  
Delta R.T. -0.012 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

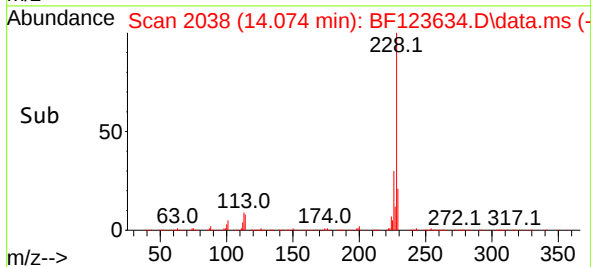
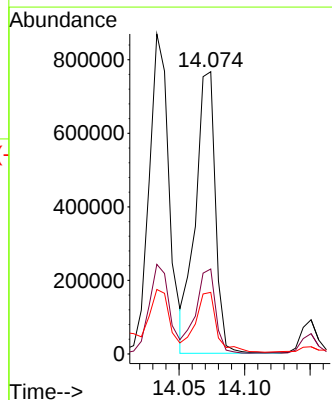
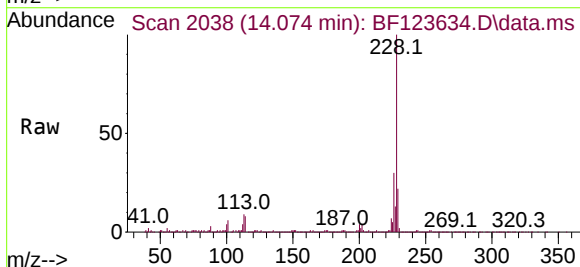
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4DL

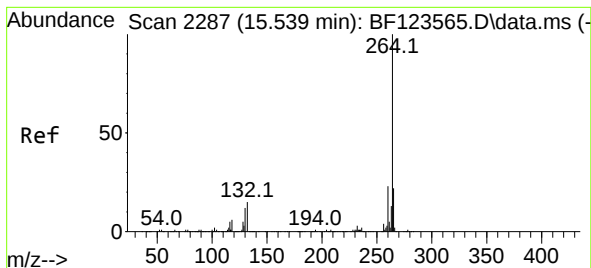
Tgt Ion:228 Resp: 932916  
Ion Ratio Lower Upper  
228 100  
226 28.0 22.4 33.6  
229 20.2 16.0 24.0



#83  
Chrysene  
Concen: 23.26 ng  
RT: 14.074 min Scan# 2038  
Delta R.T. -0.012 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

Tgt Ion:228 Resp: 815012  
Ion Ratio Lower Upper  
228 100  
226 30.1 24.3 36.5  
229 21.8 16.2 24.2

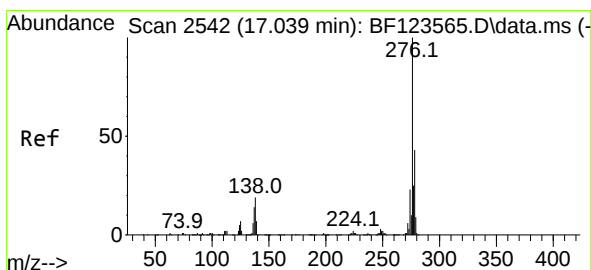
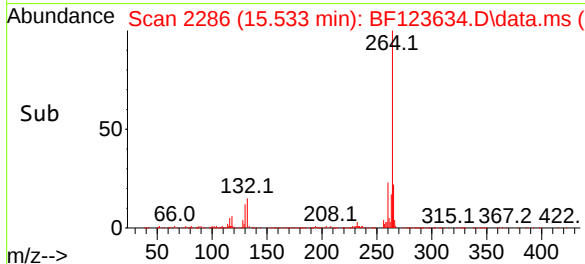
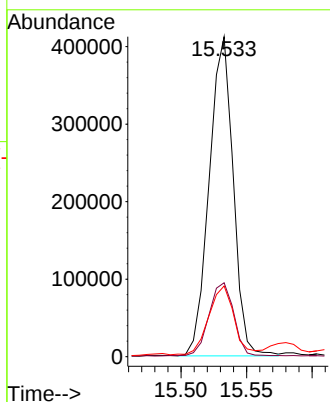
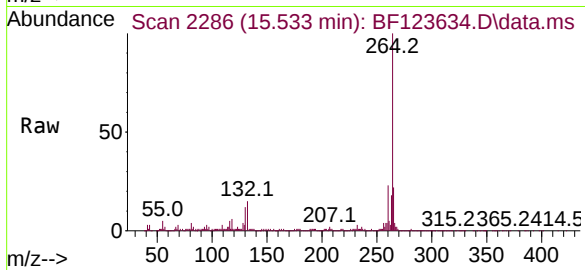




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.533 min Scan# 2286  
Delta R.T. -0.006 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

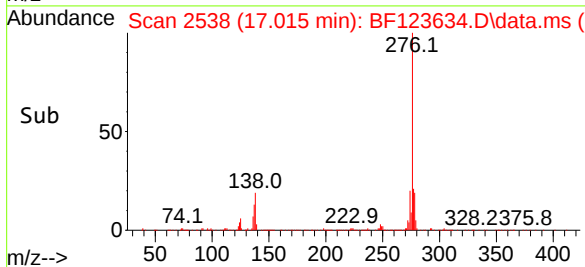
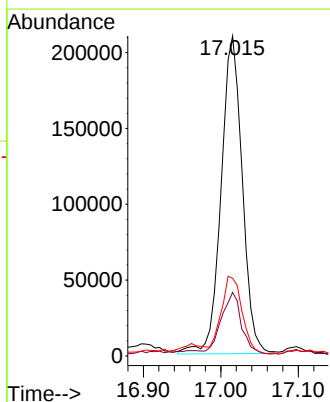
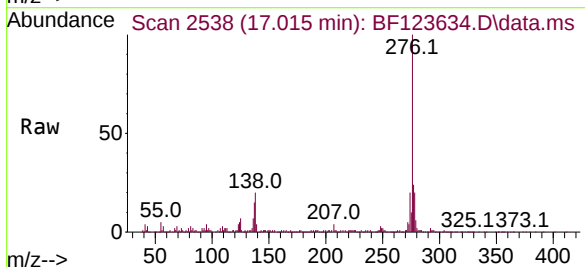
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4DL

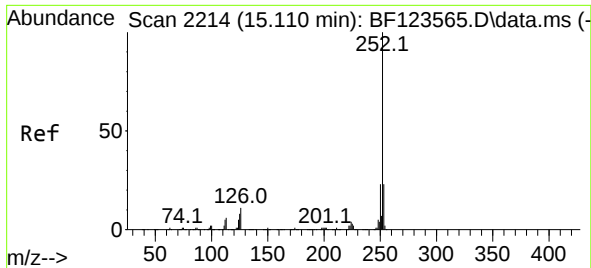
Tgt Ion:264 Resp: 523764  
Ion Ratio Lower Upper  
264 100  
260 23.1 18.7 28.1  
265 22.1 17.8 26.8



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 14.28 ng  
RT: 17.015 min Scan# 2538  
Delta R.T. -0.024 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

Tgt Ion:276 Resp: 399118  
Ion Ratio Lower Upper  
276 100  
138 18.7 16.2 24.2  
277 24.5 20.1 30.1

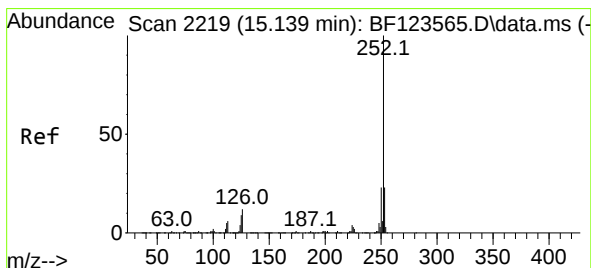
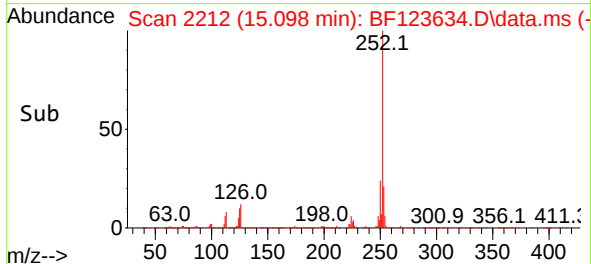
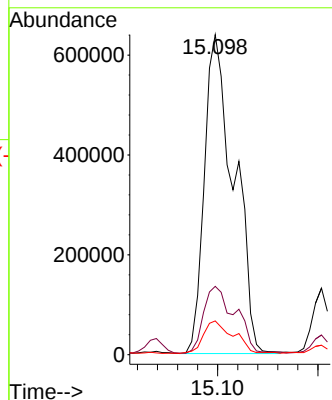
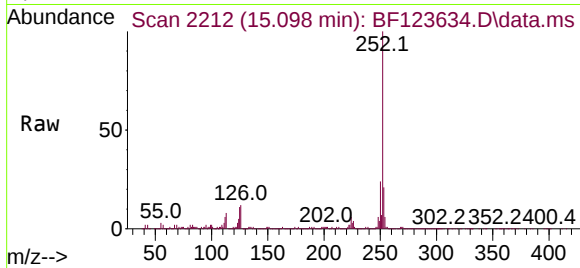




#88  
Benzo(b)fluoranthene  
Concen: 35.52 ng  
RT: 15.098 min Scan# 2212  
Delta R.T. -0.012 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

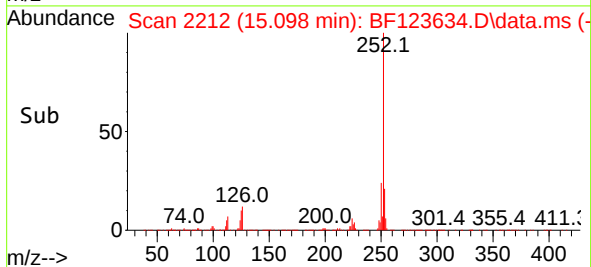
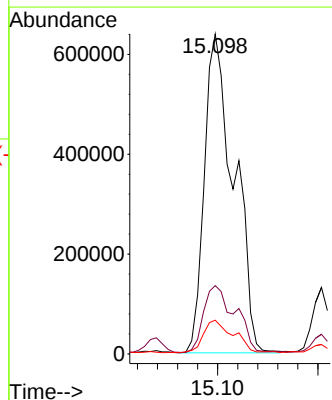
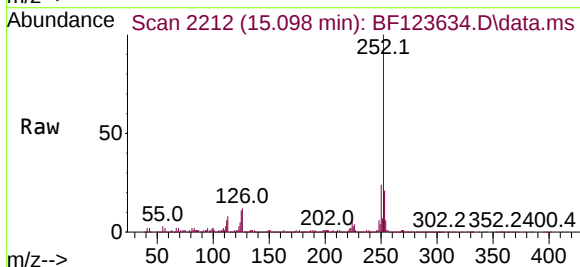
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4DL

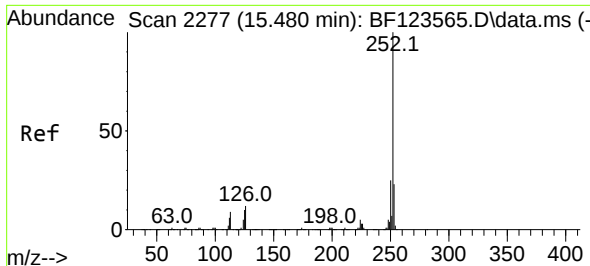
Tgt Ion:252 Resp: 1313534  
Ion Ratio Lower Upper  
252 100  
253 21.3 18.1 27.1  
125 10.6 6.2 9.4#



#89  
Benzo(k)fluoranthene  
Concen: 39.46 ng  
RT: 15.098 min Scan# 2212  
Delta R.T. -0.041 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

Tgt Ion:252 Resp: 1313534  
Ion Ratio Lower Upper  
252 100  
253 21.3 17.9 26.9  
125 10.6 7.0 10.6#

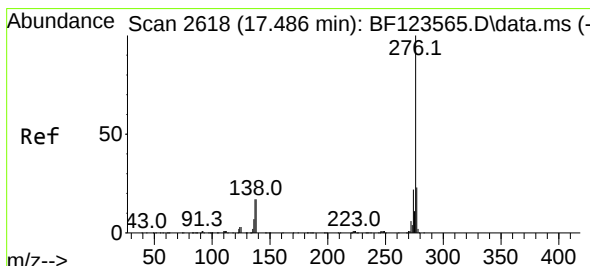
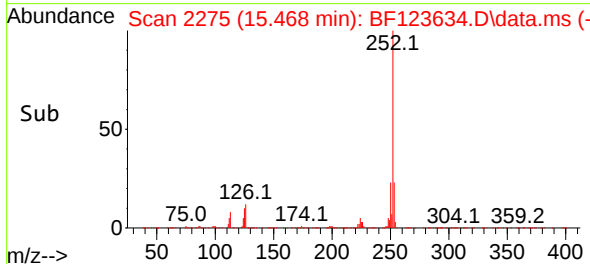
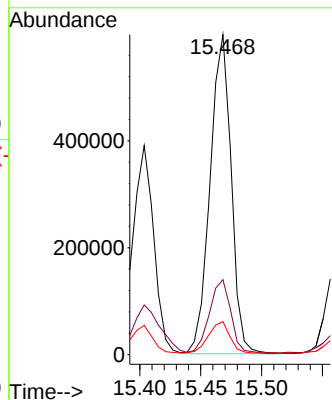
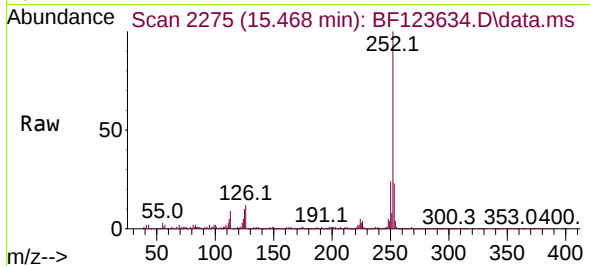




#90  
Benzo(a)pyrene  
Concen: 24.47 ng  
RT: 15.468 min Scan# 2275  
Delta R.T. -0.012 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

Instrument :  
BNA\_F  
ClientSampled :  
TP-4DL

Tgt Ion:252 Resp: 719668  
Ion Ratio Lower Upper  
252 100  
253 23.5 18.4 27.6  
125 10.3 8.0 12.0



#92  
Benzo(g,h,i)perylene  
Concen: 17.69 ng  
RT: 17.468 min Scan# 2615  
Delta R.T. -0.018 min  
Lab File: BF123634.D  
Acq: 19 Apr 2021 21:34

Tgt Ion:276 Resp: 345055  
Ion Ratio Lower Upper  
276 100  
277 23.0 18.2 27.2  
138 20.2 13.8 20.6

