

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121120\  
 Data File : BF122671.D  
 Acq On : 11 Dec 2020 19:17  
 Operator : JU/CG  
 Sample : L5035-03  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PE-6

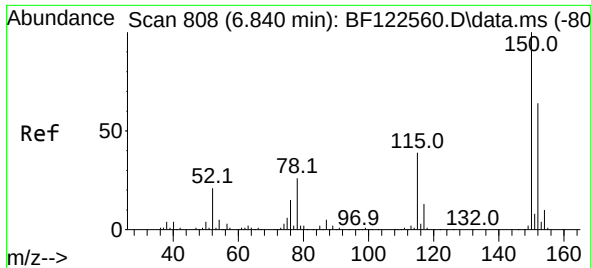
Quant Time: Dec 12 02:24:53 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 07 12:08:49 2020  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.840  | 152  | 161543   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.122  | 136  | 597779   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.881  | 164  | 286072   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.363 | 188  | 438722   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.010 | 240  | 351137   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.480 | 264  | 352965   | 20.00 | ng    | 0.01     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.463  | 112  | 981404   | 96.18 | ng    | 0.00     |
| 7) Phenol-d6                | 6.475  | 99   | 1194086  | 88.24 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.404  | 82   | 739263   | 61.96 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.669 | 330  | 293621   | 78.41 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.198  | 172  | 1193944  | 56.45 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.951 | 244  | 906411   | 45.19 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| Target Compounds            |        |      |          |       |       | Qvalue   |
| 10) Phenol                  | 6.481  | 94   | 32050    | 2.29  | ng    | 88       |
| 38) 1-Methylnaphthalene     | 8.934  | 142  | 42007    | 2.04  | ng    | 97       |
| 49) Acenaphthylene          | 9.739  | 152  | 455110   | 15.66 | ng    | 99       |
| 50) Dimethylphthalate       | 9.592  | 163  | 107823   | 4.72  | ng    | 99       |
| 58) Fluorene                | 10.428 | 166  | 88609    | 4.21  | ng    | 94       |
| 71) Phenanthrene            | 11.392 | 178  | 1131051  | 43.38 | ng    | 99       |
| 72) Anthracene              | 11.439 | 178  | 294450   | 11.39 | ng    | 98       |
| 73) Carbazole               | 11.598 | 167  | 83255    | 3.55  | ng    | 99       |
| 75) Fluoranthene            | 12.586 | 202  | 1662094  | 60.79 | ng    | 100      |
| 78) Pyrene                  | 12.816 | 202  | 1720275  | 63.37 | ng    | 99       |
| 80) Butylbenzylphthalate    | 13.422 | 149  | 64343m   | 5.26  | ng    |          |
| 81) Benzo(a)anthracene      | 13.998 | 228  | 862830m  | 36.77 | ng    |          |
| 83) Chrysene                | 14.039 | 228  | 982459   | 42.07 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.945 | 276  | 422816   | 18.25 | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 15.057 | 252  | 1128500m | 45.57 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.080 | 252  | 278057m  | 12.28 | ng    |          |
| 90) Benzo(a)pyrene          | 15.421 | 252  | 734413   | 33.90 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene  | 16.951 | 278  | 114136   | 6.02  | ng    | # 89     |
| 92) Benzo(g,h,i)perylene    | 17.386 | 276  | 402859   | 21.95 | ng    | 99       |
| -----                       |        |      |          |       |       |          |

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

Quant Time: Dec 12 02:24:53 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 07 12:08:49 2020  
Response via : Initial Calibration

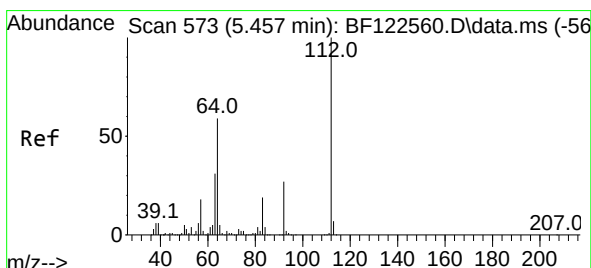
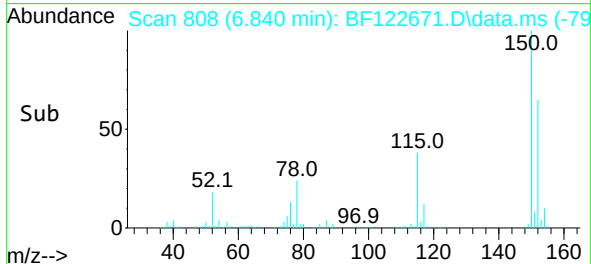
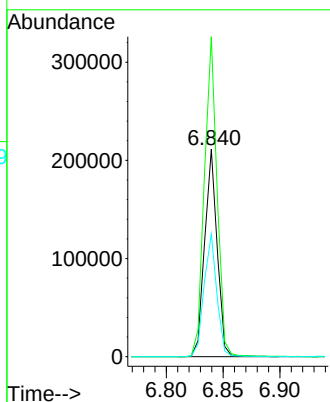
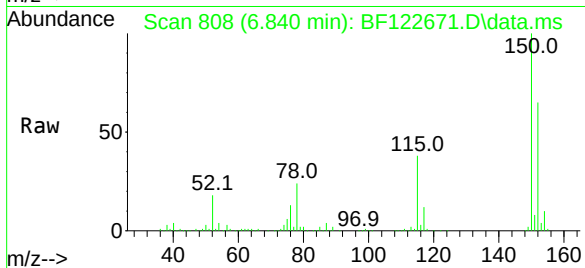




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.840 min Scan# 808  
Delta R.T. -0.000 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

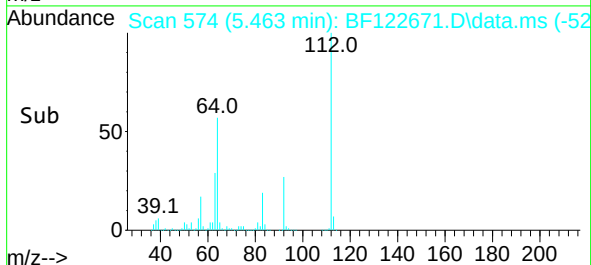
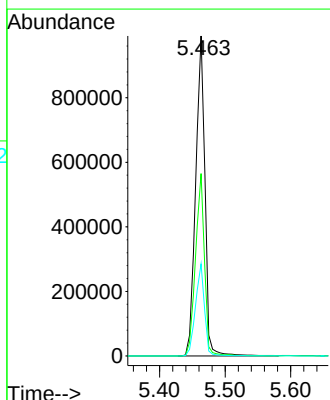
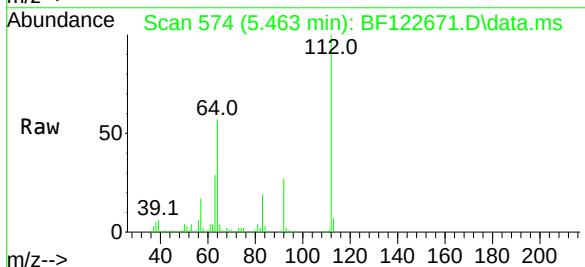
Instrument :  
BNA\_F  
ClientSampleId :  
PE-6

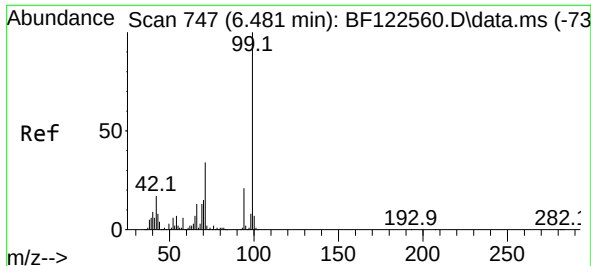
Tgt Ion:152 Resp: 161543  
Ion Ratio Lower Upper  
152 100  
150 154.4 125.8 188.6  
115 59.1 49.3 73.9



#5  
2-Fluorophenol  
Concen: 96.18 ng  
RT: 5.463 min Scan# 574  
Delta R.T. 0.006 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

Tgt Ion:112 Resp: 981404  
Ion Ratio Lower Upper  
112 100  
64 57.0 46.9 70.3  
63 28.8 24.5 36.7

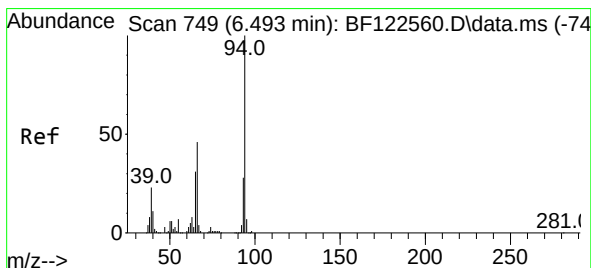
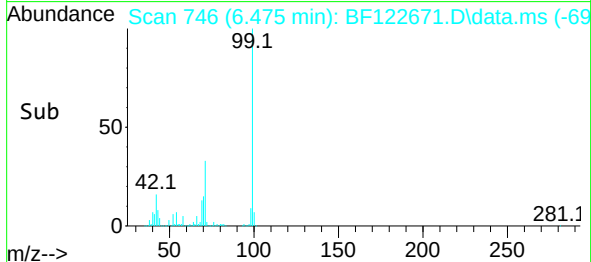
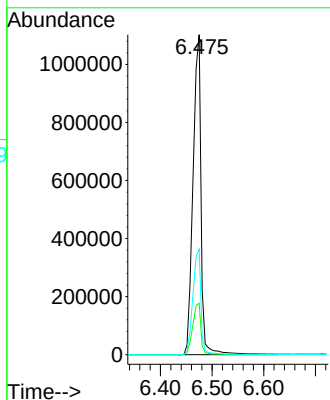
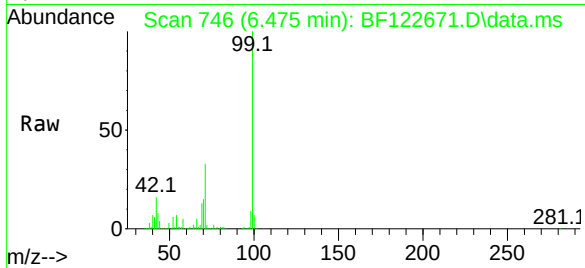




#7  
Phenol-d6  
Concen: 88.24 ng  
RT: 6.475 min Scan# 746  
Delta R.T. -0.006 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

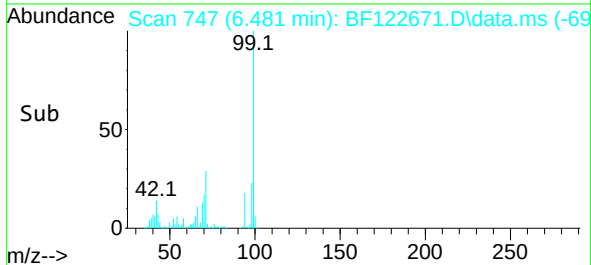
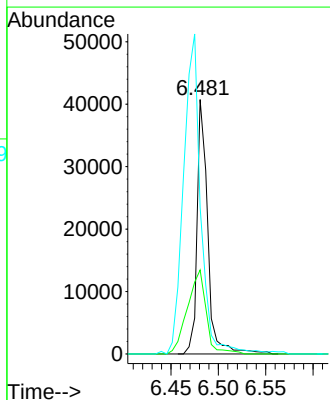
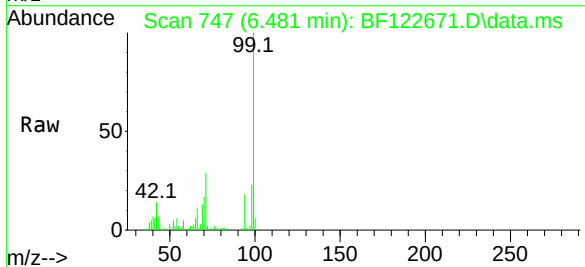
Instrument :  
BNA\_F  
ClientSampleId :  
PE-6

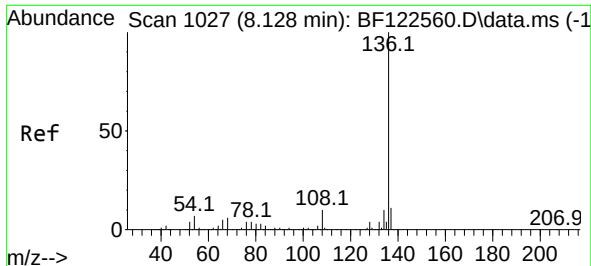
Tgt Ion: 99 Resp: 1194086  
Ion Ratio Lower Upper  
99 100  
42 16.1 13.8 20.6  
71 33.0 26.9 40.3



#10  
Phenol  
Concen: 2.29 ng  
RT: 6.481 min Scan# 747  
Delta R.T. -0.012 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

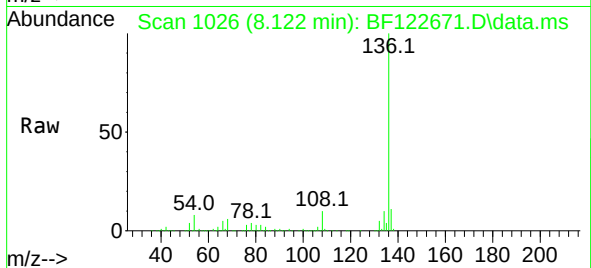
Tgt Ion: 94 Resp: 32050  
Ion Ratio Lower Upper  
94 100  
65 33.1 11.2 51.2  
66 57.7 25.8 65.8



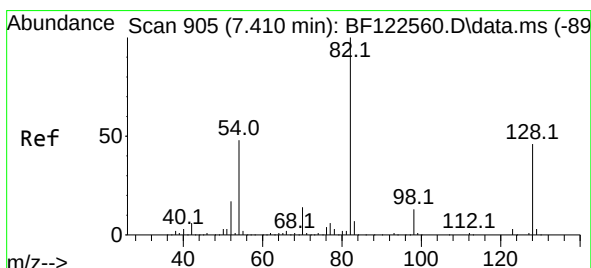
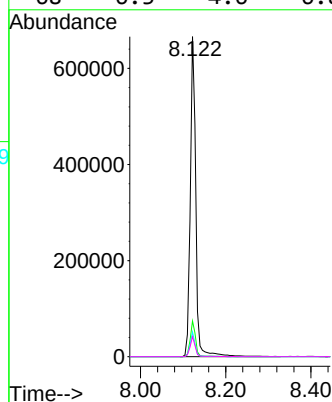
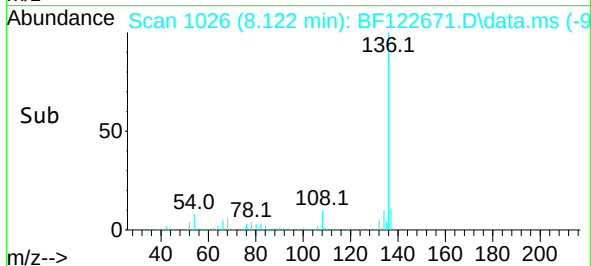


#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.122 min Scan# 1026  
Delta R.T. -0.006 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

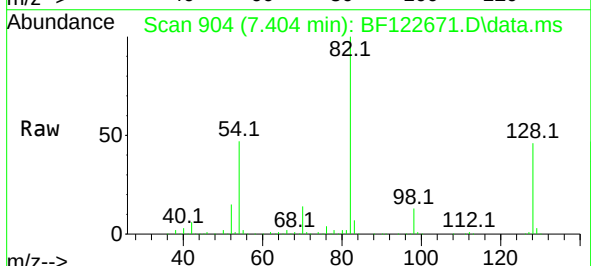
Instrument :  
BNA\_F  
ClientSampleId :  
PE-6



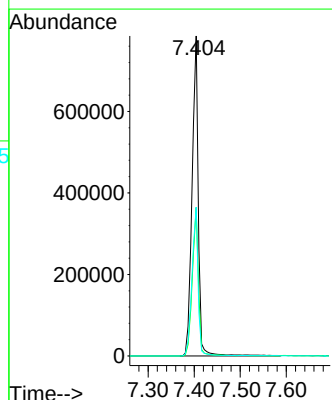
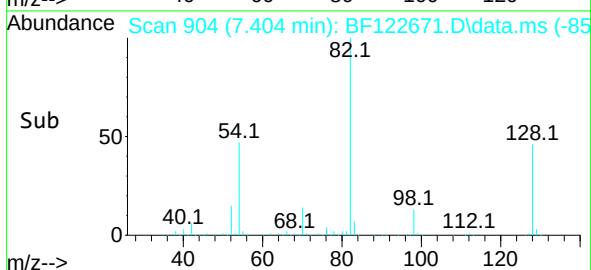
Tgt Ion:136 Resp: 597779  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.8 13.2  
54 7.7 5.5 8.3  
68 6.3 4.6 6.8

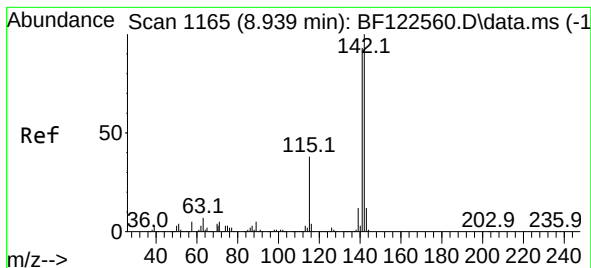


#23  
Nitrobenzene-d5  
Concen: 61.96 ng  
RT: 7.404 min Scan# 904  
Delta R.T. -0.006 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17



Tgt Ion: 82 Resp: 739263  
Ion Ratio Lower Upper  
82 100  
128 46.4 37.0 55.4  
54 46.5 38.4 57.6





#38

1-Methylnaphthalene

Concen: 2.04 ng

RT: 8.934 min Scan# 1164

Delta R.T. -0.006 min

Lab File: BF122671.D

Acq: 11 Dec 2020 19:17

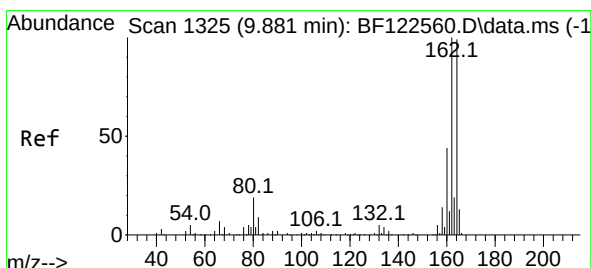
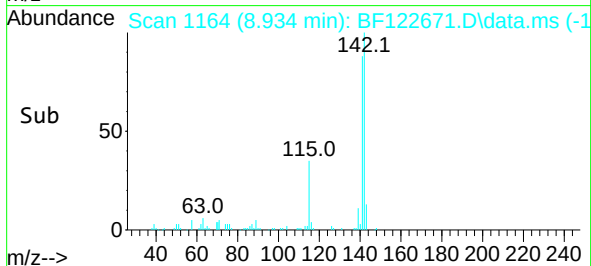
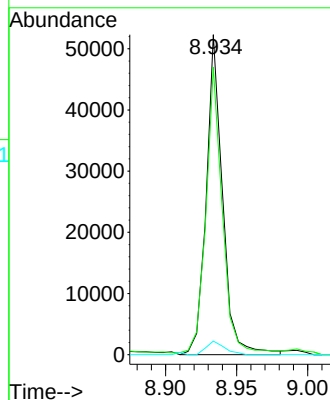
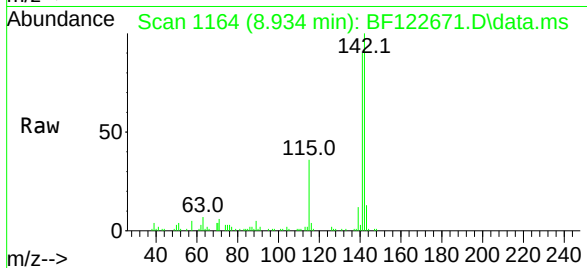
Tgt Ion:142 Resp: 42007

Ion Ratio Lower Upper

142 100

141 89.9 74.5 111.7

116 4.3 3.2 4.8



#39

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.881 min Scan# 1325

Delta R.T. -0.000 min

Lab File: BF122671.D

Acq: 11 Dec 2020 19:17

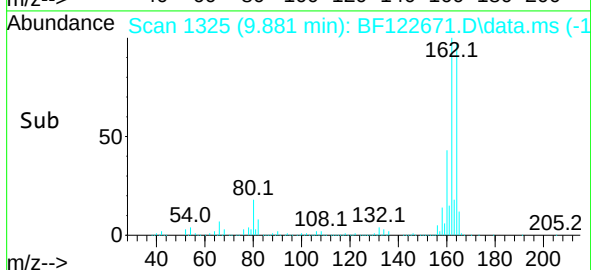
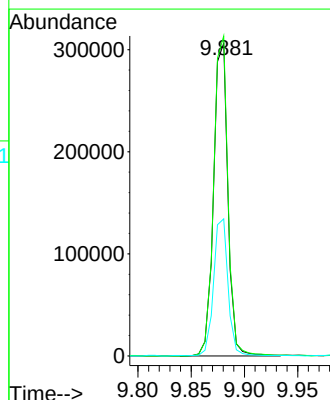
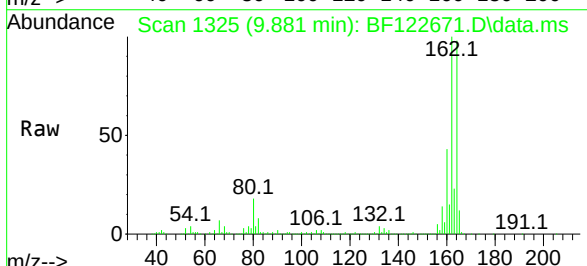
Tgt Ion:164 Resp: 286072

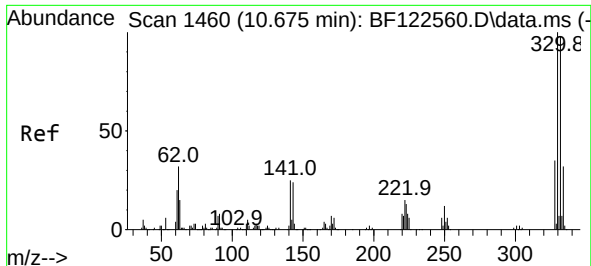
Ion Ratio Lower Upper

164 100

162 102.3 80.8 121.2

160 43.9 35.4 53.0

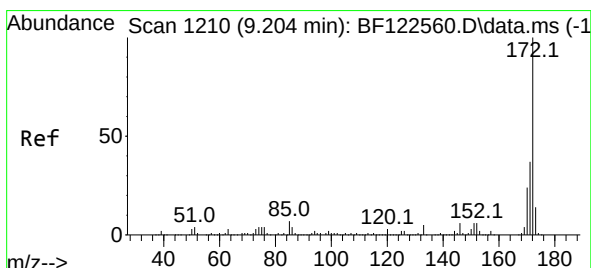
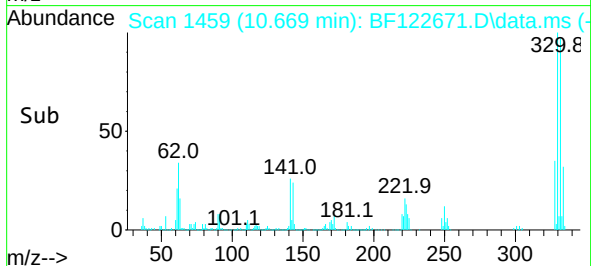
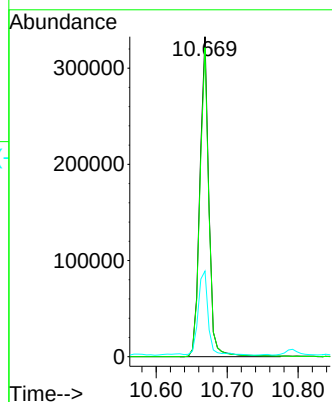
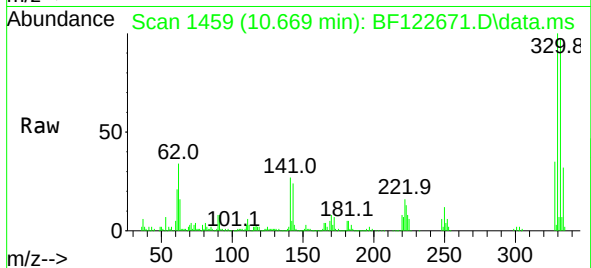




#42  
2,4,6-Tribromophenol  
Concen: 78.41 ng  
RT: 10.669 min Scan# 1459  
Delta R.T. -0.006 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

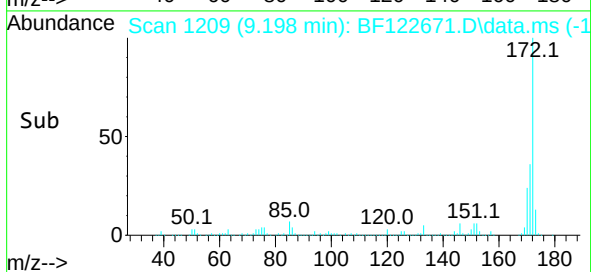
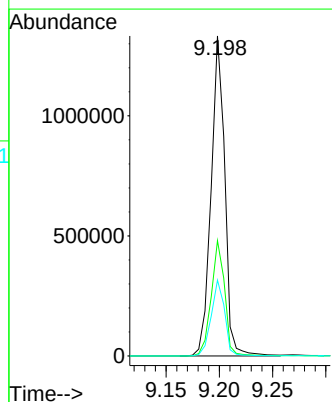
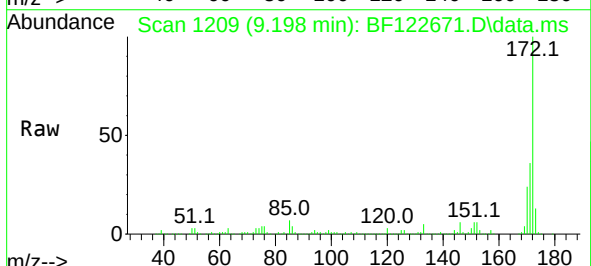
Instrument :  
BNA\_F  
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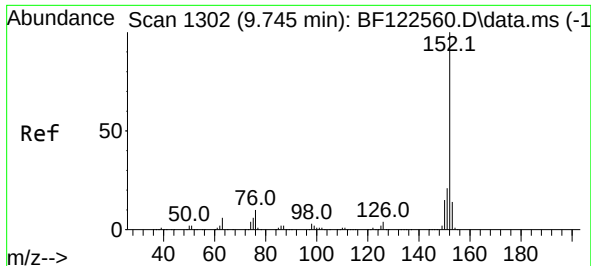
Tgt Ion:330 Resp: 293621  
Ion Ratio Lower Upper  
330 100  
332 97.0 77.5 116.3  
141 29.2 23.8 35.8



#45  
2-Fluorobiphenyl  
Concen: 56.45 ng  
RT: 9.198 min Scan# 1209  
Delta R.T. -0.006 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

Tgt Ion:172 Resp: 1193944  
Ion Ratio Lower Upper  
172 100  
171 36.1 29.6 44.4  
170 23.7 19.5 29.3

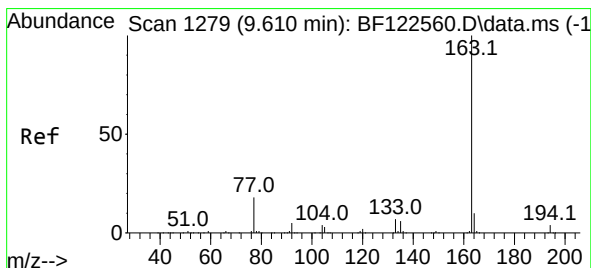
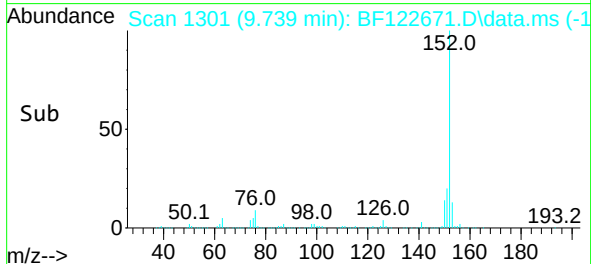
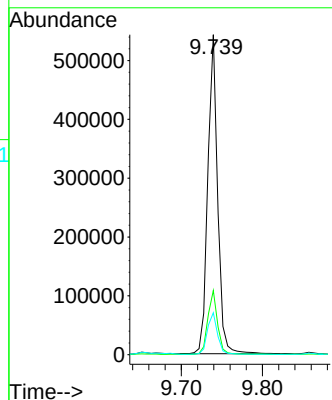
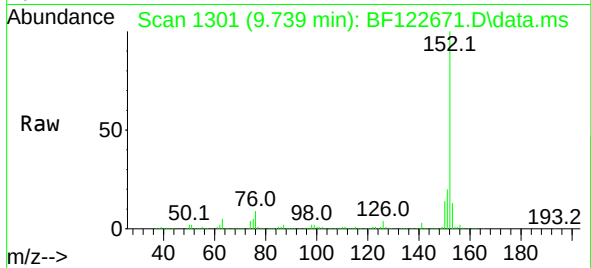




#49  
Acenaphthylene  
Concen: 15.66 ng  
RT: 9.739 min Scan# 1301  
Delta R.T. -0.006 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

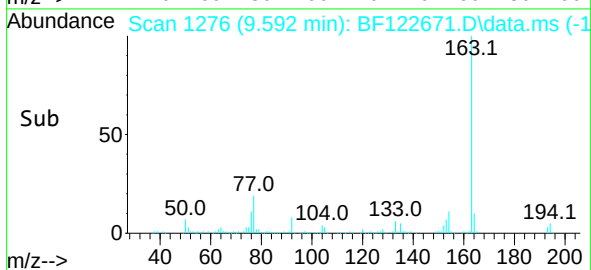
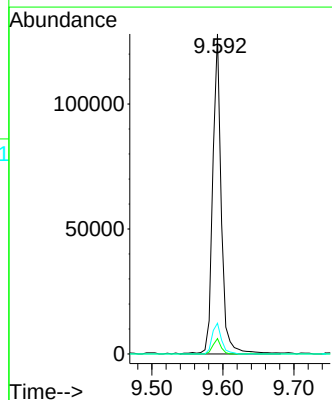
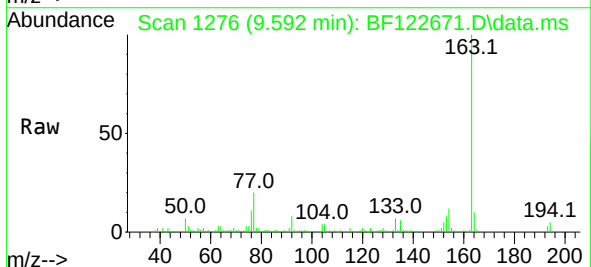
Instrument :  
BNA\_F  
ClientSampleId :  
PE-6

Tgt Ion:152 Resp: 455110  
Ion Ratio Lower Upper  
152 100  
151 20.1 16.6 25.0  
153 13.1 10.9 16.3

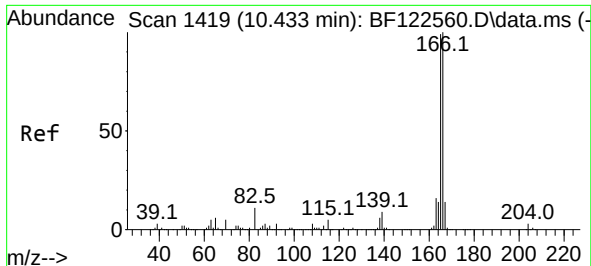


#50  
Dimethylphthalate  
Concen: 4.72 ng  
RT: 9.592 min Scan# 1276  
Delta R.T. -0.018 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

Tgt Ion:163 Resp: 107823  
Ion Ratio Lower Upper  
163 100  
194 4.8 3.4 5.0  
164 9.6 8.1 12.1



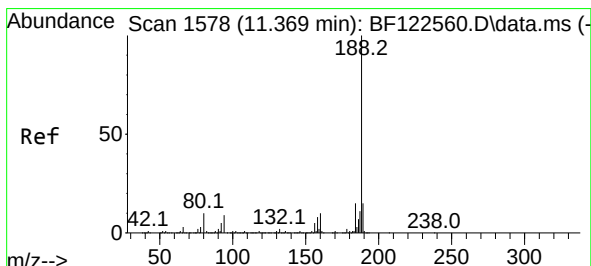
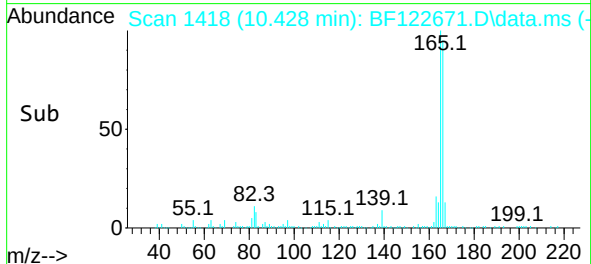
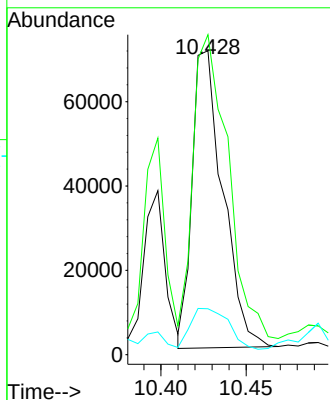
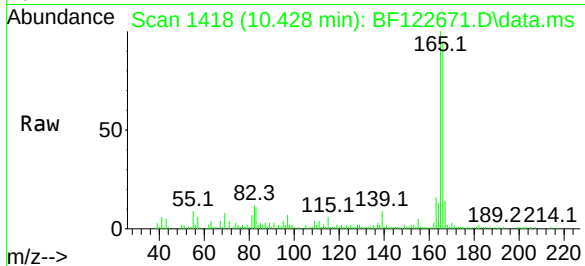




#58  
Fluorene  
Concen: 4.21 ng  
RT: 10.428 min Scan# 1418  
Delta R.T. -0.005 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

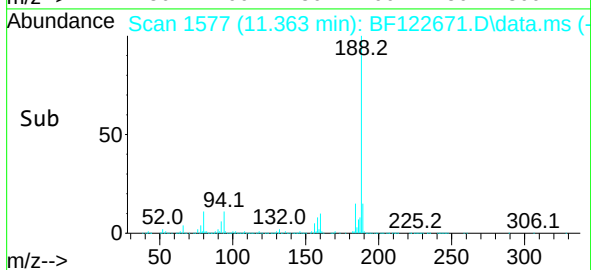
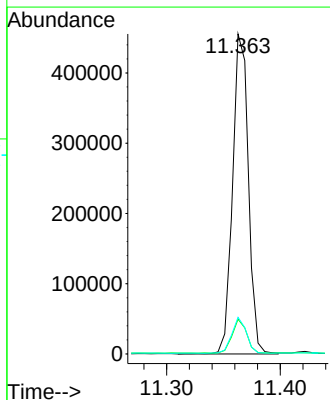
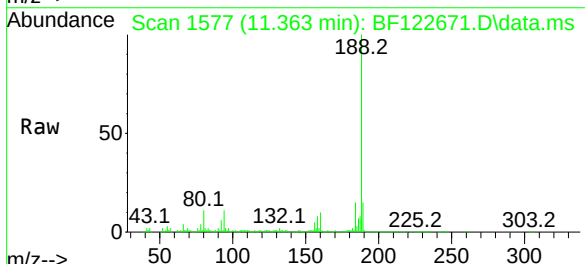
Instrument :  
BNA\_F  
ClientSampleId :  
PE-6

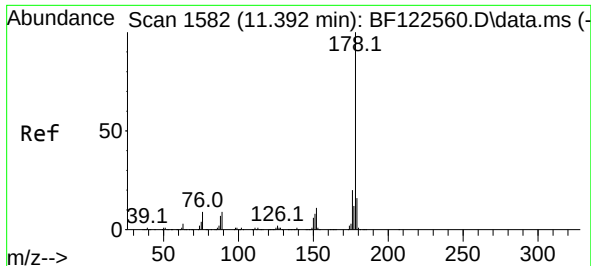
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Ion Ratio Lower Upper  
166 100  
165 105.2 79.4 119.0  
167 15.1 10.9 16.3



#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.363 min Scan# 1577  
Delta R.T. -0.006 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

Tgt Ion:188 Resp: 438722  
Ion Ratio Lower Upper  
188 100  
94 10.9 7.4 11.2  
80 11.5 8.2 12.4

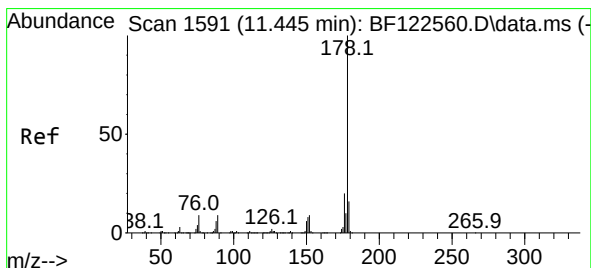
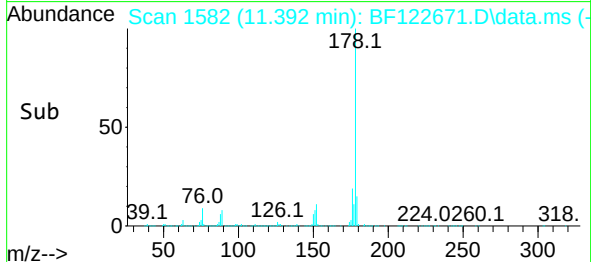
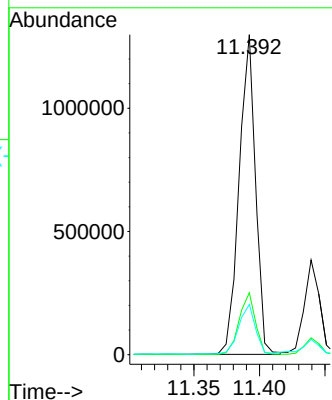
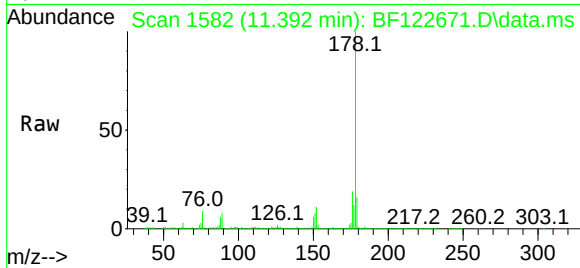




#71  
Phenanthrene  
Concen: 43.38 ng  
RT: 11.392 min Scan# 1582  
Delta R.T. 0.000 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

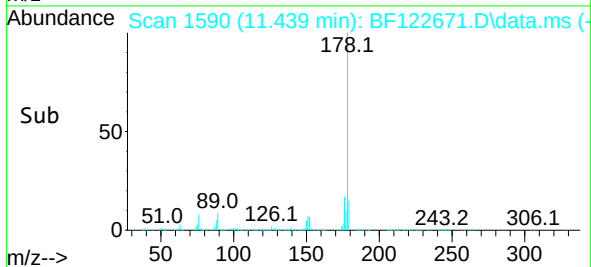
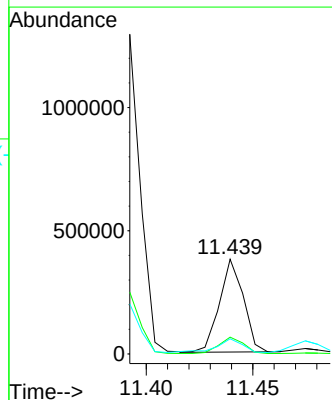
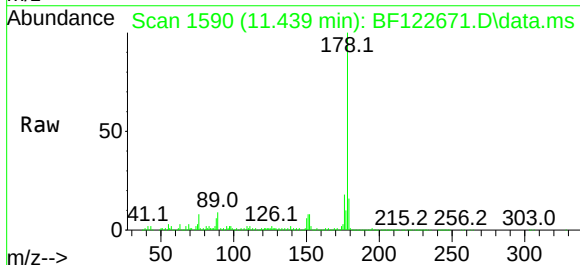
Instrument :  
BNA\_F  
ClientSampleId :  
PE-6

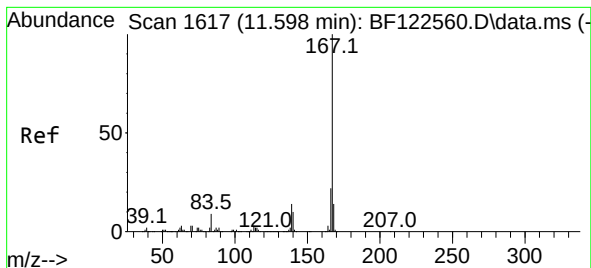
Tgt Ion:178 Resp: 1131051  
Ion Ratio Lower Upper  
178 100  
176 19.3 16.2 24.2  
179 15.7 12.7 19.1



#72  
Anthracene  
Concen: 11.39 ng  
RT: 11.439 min Scan# 1590  
Delta R.T. -0.006 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

Tgt Ion:178 Resp: 294450  
Ion Ratio Lower Upper  
178 100  
176 17.7 15.6 23.4  
179 16.1 12.8 19.2





#73

Carbazole

Concen: 3.55 ng

RT: 11.598 min Scan# 1617

Delta R.T. 0.000 min

Lab File: BF122671.D

Acq: 11 Dec 2020 19:17

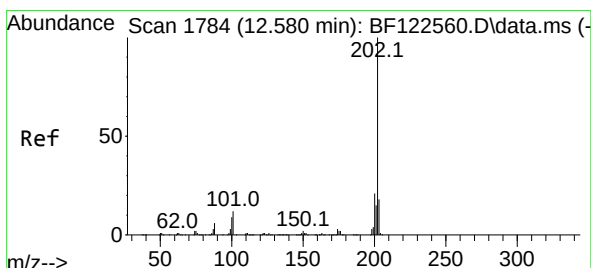
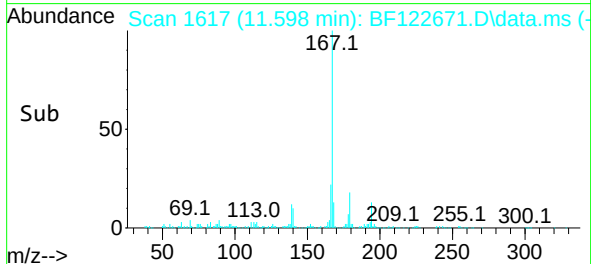
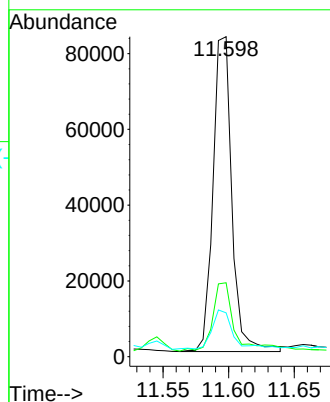
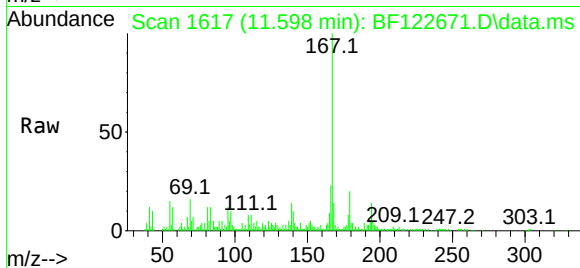
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:167 | Resp: | 83255     |
| Ion Ratio   | Lower | Upper     |
| 167         | 100   |           |
| 166         | 23.1  | 18.0 27.0 |
| 139         | 13.7  | 10.9 16.3 |

Instrument :

BNA\_F

ClientSampleId :

PE-6



#75

Fluoranthene

Concen: 60.79 ng

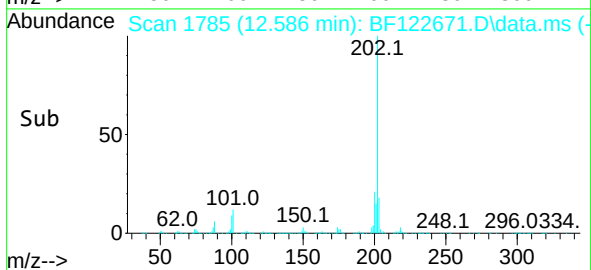
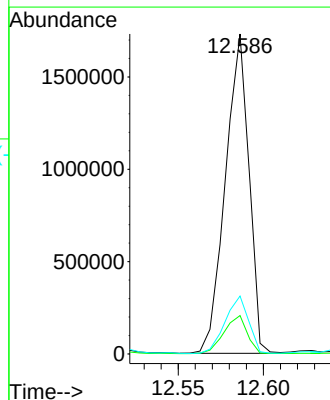
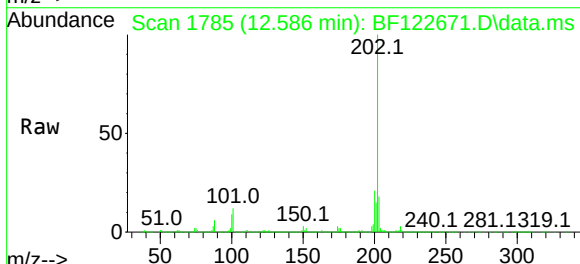
RT: 12.586 min Scan# 1785

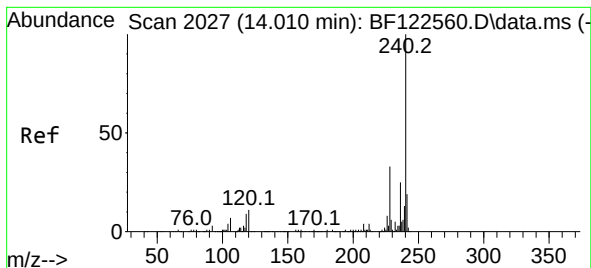
Delta R.T. 0.006 min

Lab File: BF122671.D

Acq: 11 Dec 2020 19:17

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:202 | Resp: | 1662094  |
| Ion Ratio   | Lower | Upper    |
| 202         | 100   |          |
| 101         | 12.0  | 0.0 32.2 |
| 203         | 18.1  | 0.0 38.1 |

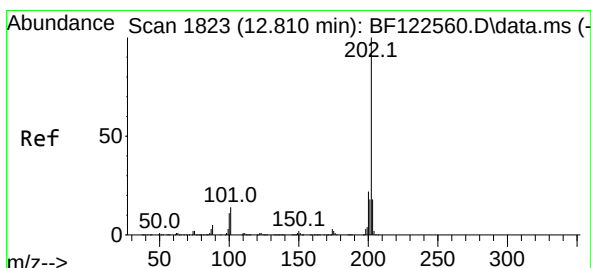
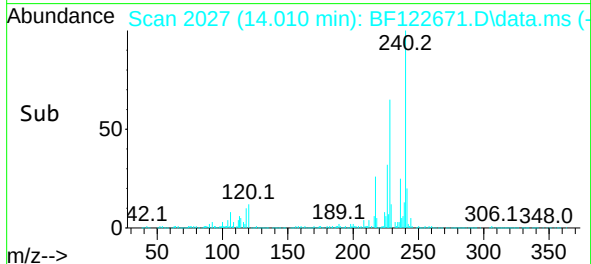
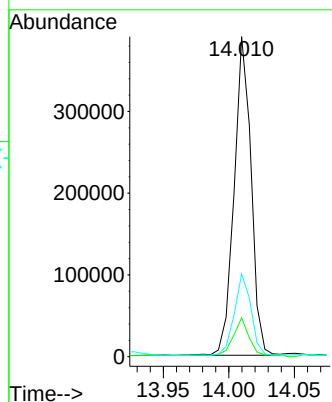
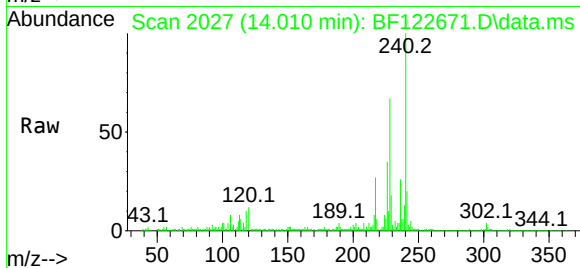




#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.010 min Scan# 2027  
Delta R.T. 0.000 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

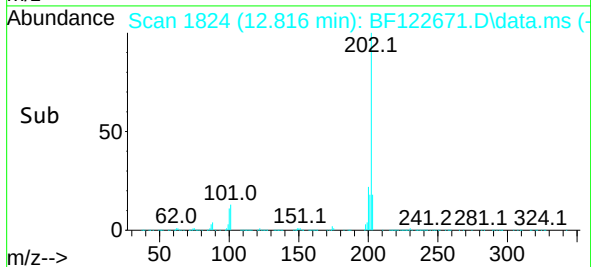
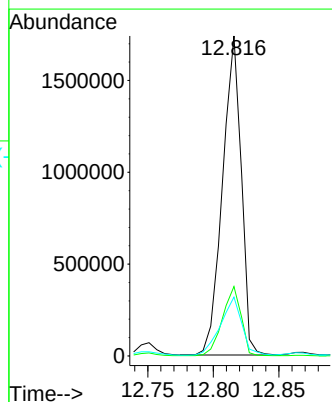
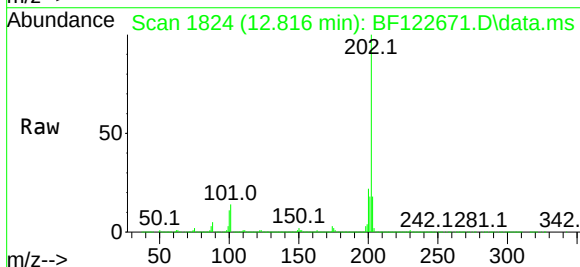
Instrument :  
BNA\_F  
ClientSampleId :  
PE-6

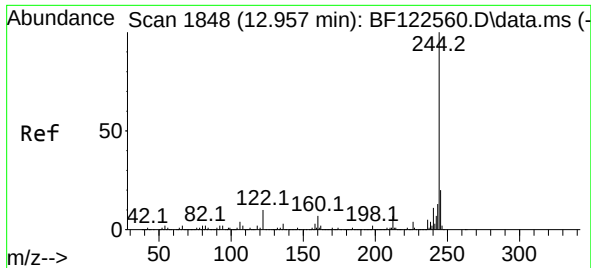
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 351137 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 12.1  | 8.6   | 12.8   |
| 236       | 25.9  | 20.3  | 30.5   |



#78  
Pyrene  
Concen: 63.37 ng  
RT: 12.816 min Scan# 1824  
Delta R.T. 0.006 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1720275 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 200       | 21.7  | 17.6  | 26.4    |
| 203       | 18.4  | 14.6  | 21.8    |

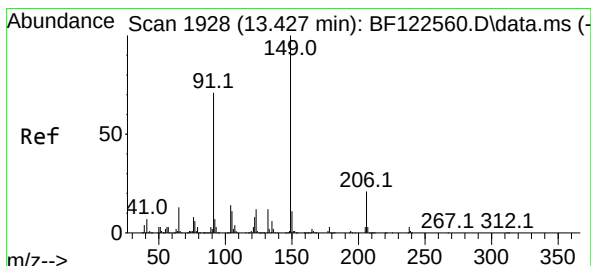
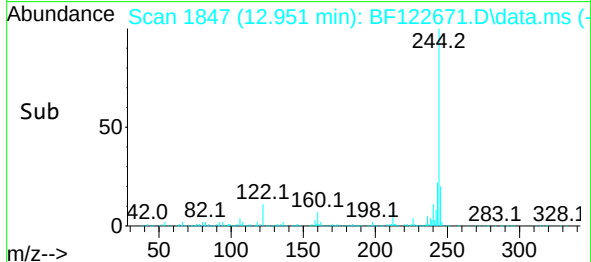
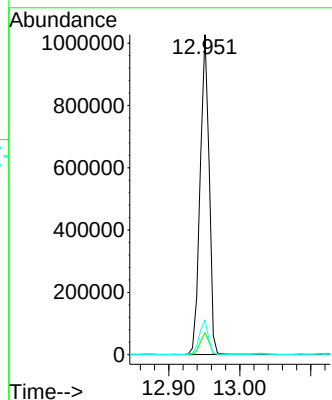
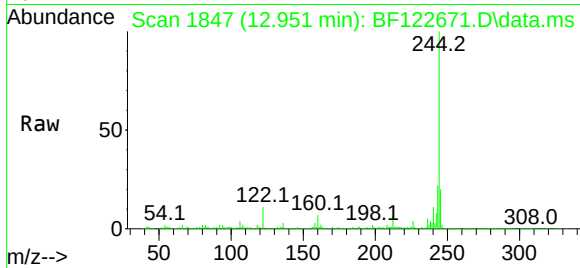




#79  
 Terphenyl-d14  
 Concen: 45.19 ng  
 RT: 12.951 min Scan# 1847  
 Delta R.T. -0.006 min  
 Lab File: BF122671.D  
 Acq: 11 Dec 2020 19:17

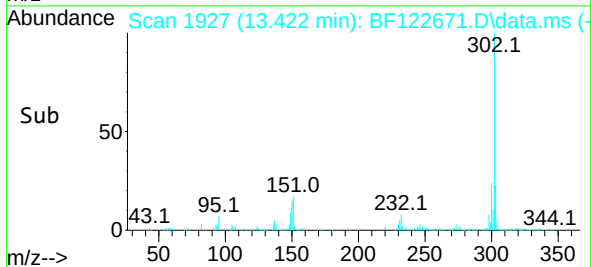
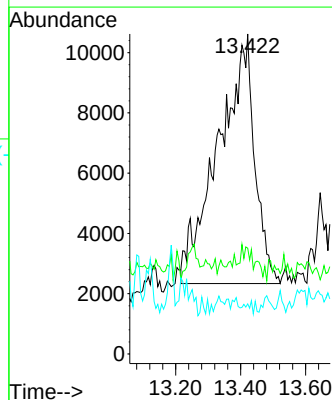
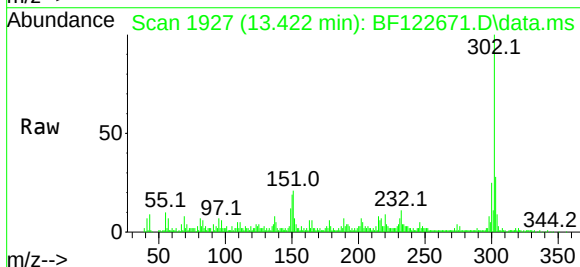
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PE-6

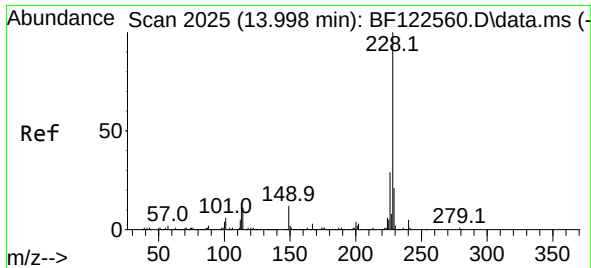
Tgt Ion:244 Resp: 906411  
 Ion Ratio Lower Upper  
 244 100  
 212 6.9 5.7 8.5  
 122 10.8 8.3 12.5



#80  
 Butylbenzylphthalate  
 Concen: 5.26 ng m  
 RT: 13.422 min Scan# 1927  
 Delta R.T. -0.006 min  
 Lab File: BF122671.D  
 Acq: 11 Dec 2020 19:17

Tgt Ion:149 Resp: 64343  
 Ion Ratio Lower Upper  
 149 100  
 91 33.1 56.5 84.7#  
 206 15.7 17.0 25.6#

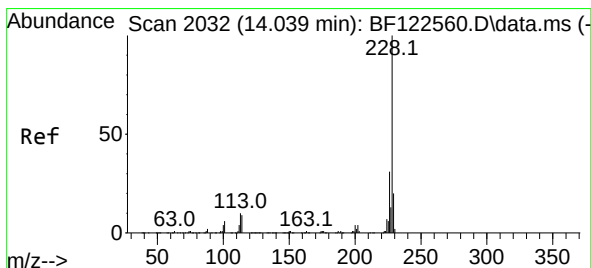
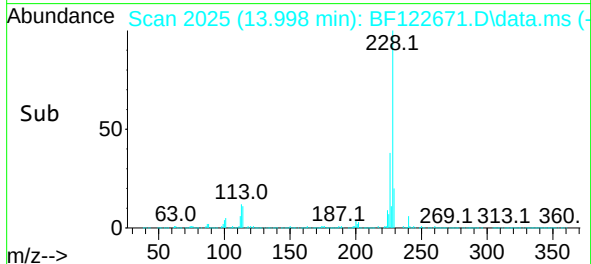
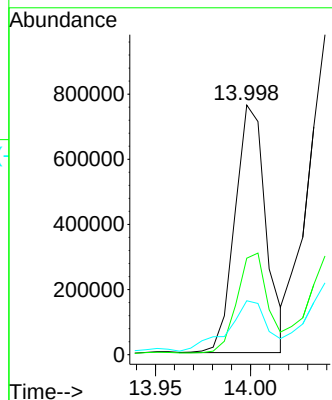
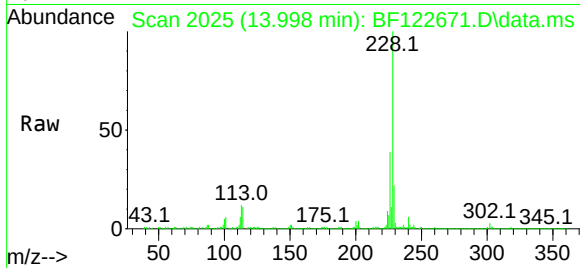




#81  
Benzo(a)anthracene  
Concen: 36.77 ng m  
RT: 13.998 min Scan# 2025  
Delta R.T. 0.000 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

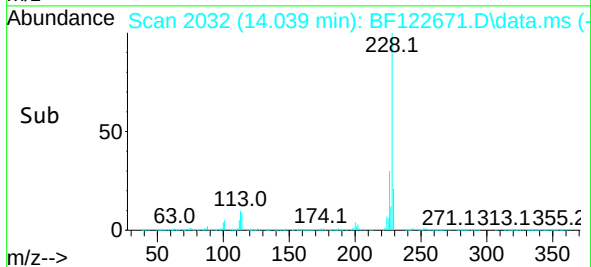
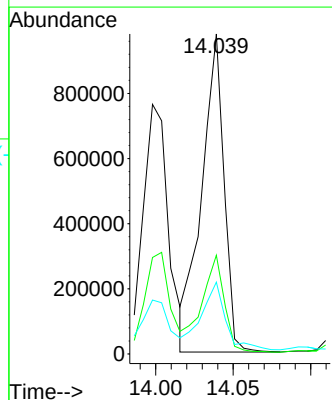
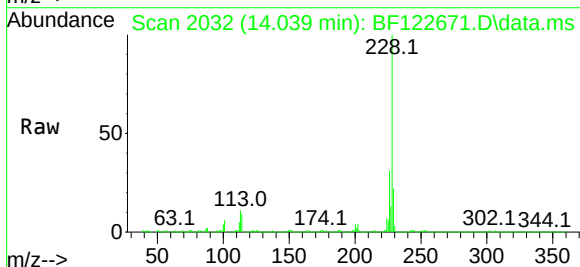
Instrument :  
BNA\_F  
ClientSampleId :  
PE-6

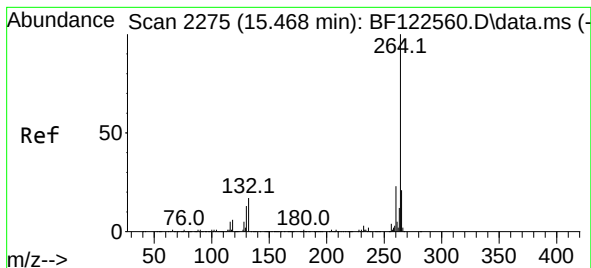
Tgt Ion:228 Resp: 862830  
Ion Ratio Lower Upper  
228 100  
226 38.7 23.0 34.4#  
229 21.6 16.6 24.8



#83  
Chrysene  
Concen: 42.07 ng  
RT: 14.039 min Scan# 2032  
Delta R.T. 0.000 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

Tgt Ion:228 Resp: 982459  
Ion Ratio Lower Upper  
228 100  
226 30.8 24.6 36.8  
229 22.4 15.8 23.6





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.480 min Scan# 2277

Delta R.T. 0.012 min

Lab File: BF122671.D

Acq: 11 Dec 2020 19:17

Tgt Ion:264 Resp: 352965

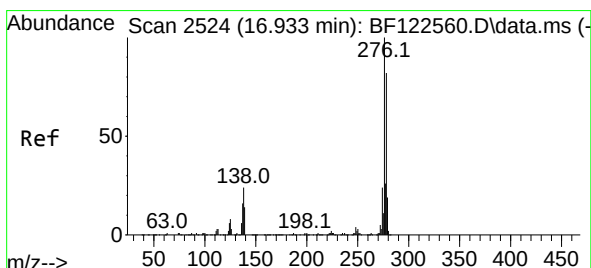
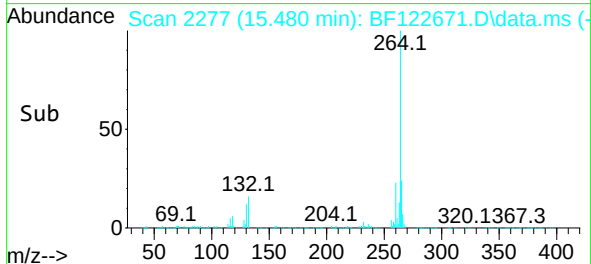
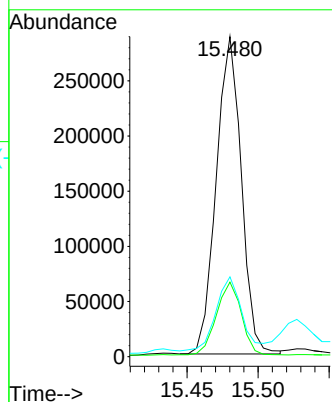
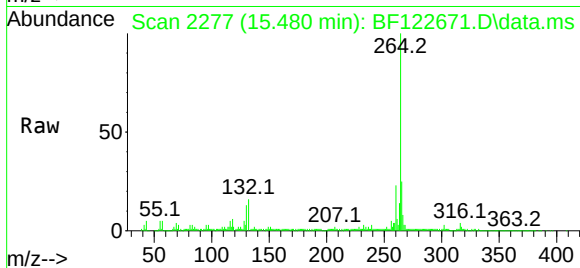
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.3  | 18.6  | 28.0  |
| 265 | 25.0  | 17.0  | 25.6  |

Instrument :

BNA\_F

ClientSampleId :

PE-6



#87

Indeno(1,2,3-cd)pyrene

Concen: 18.25 ng

RT: 16.945 min Scan# 2526

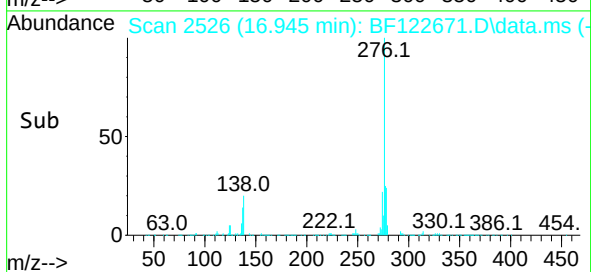
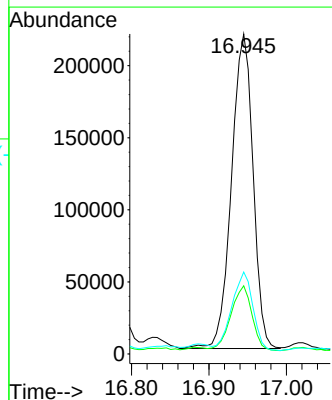
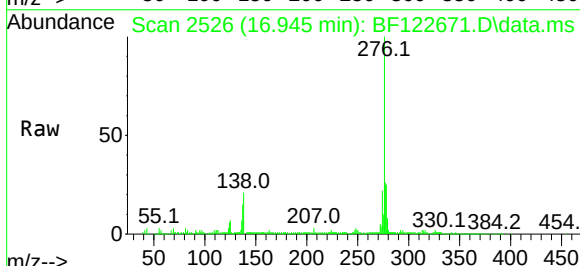
Delta R.T. 0.012 min

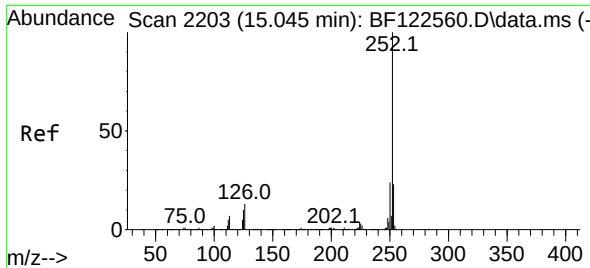
Lab File: BF122671.D

Acq: 11 Dec 2020 19:17

Tgt Ion:276 Resp: 422816

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 20.2  | 18.7  | 28.1  |
| 277 | 24.5  | 20.2  | 30.4  |

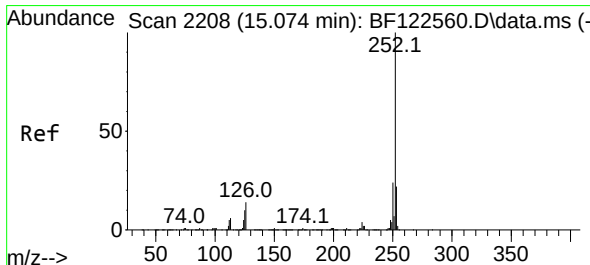
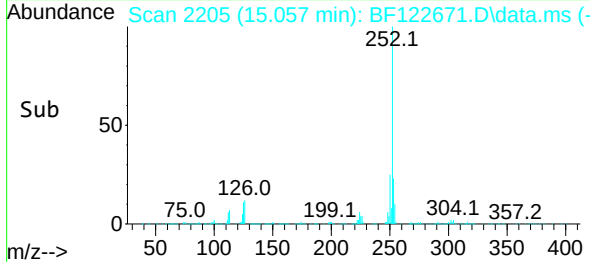
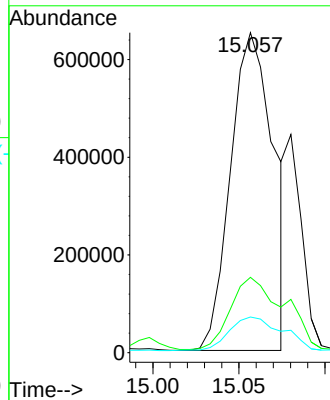
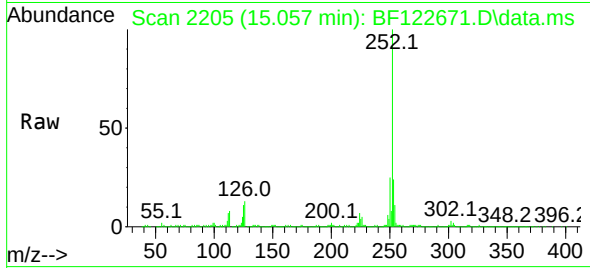




#88  
Benzo(b)fluoranthene  
Concen: 45.57 ng m  
RT: 15.057 min Scan# 2205  
Delta R.T. 0.012 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

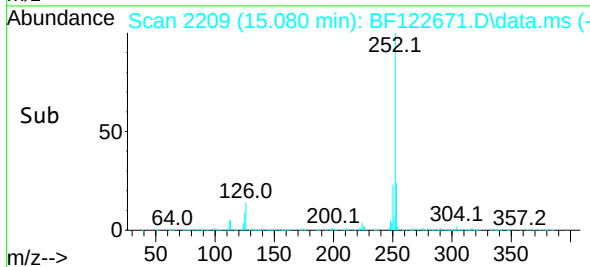
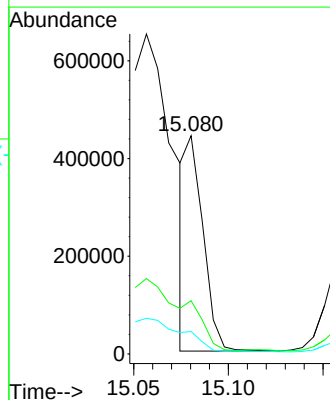
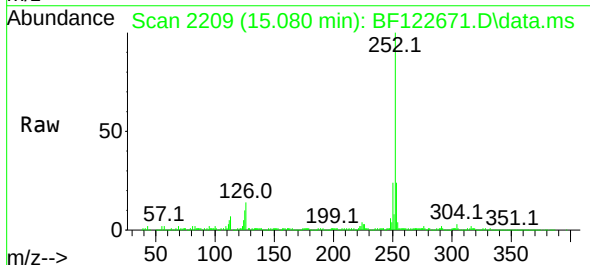
Instrument :  
BNA\_F  
ClientSampleId :  
PE-6

Tgt Ion:252 Resp: 1128500  
Ion Ratio Lower Upper  
252 100  
253 23.5 18.3 27.5  
125 11.2 8.1 12.1

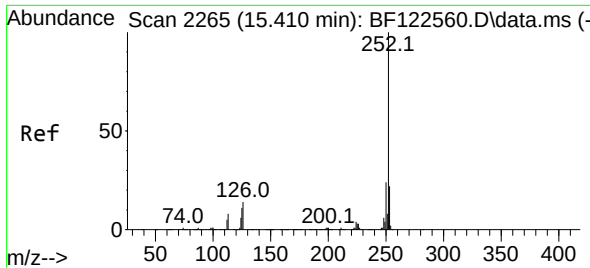


#89  
Benzo(k)fluoranthene  
Concen: 12.28 ng m  
RT: 15.080 min Scan# 2209  
Delta R.T. 0.006 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

Tgt Ion:252 Resp: 278057  
Ion Ratio Lower Upper  
252 100  
253 24.4 17.8 26.8  
125 10.3 8.4 12.6



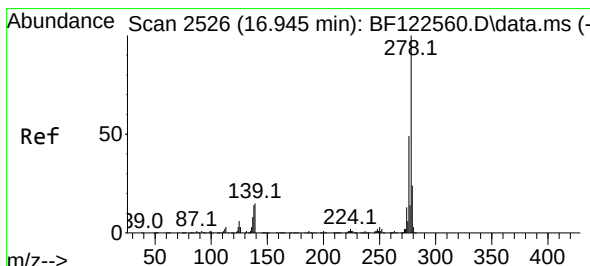
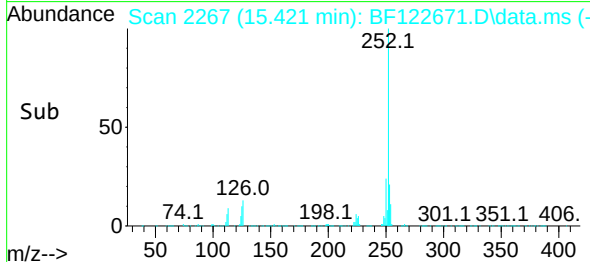
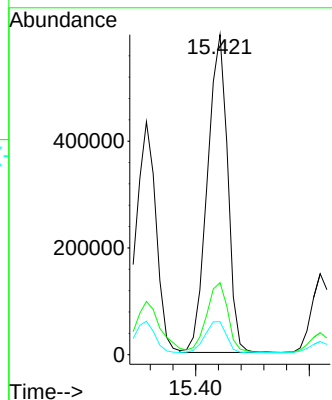
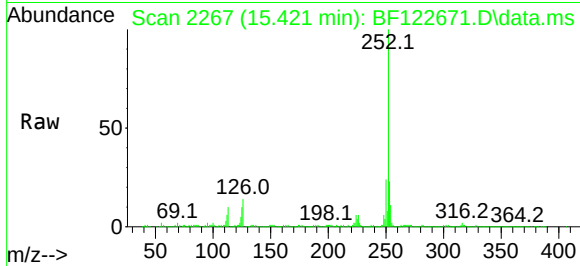




#90  
Benzo(a)pyrene  
Concen: 33.90 ng  
RT: 15.421 min Scan# 2267  
Delta R.T. 0.012 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

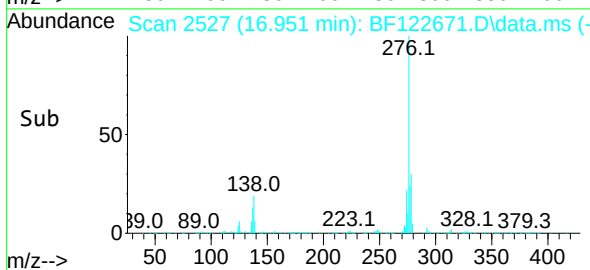
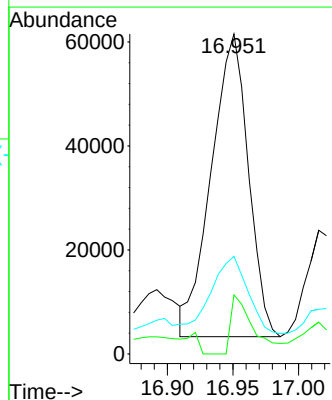
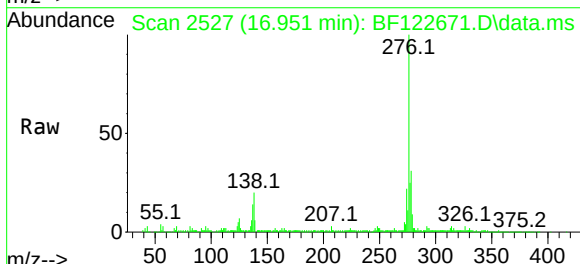
Instrument :  
BNA\_F  
ClientSampleId :  
PE-6

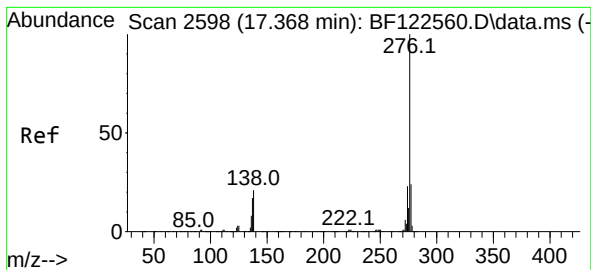
Tgt Ion:252 Resp: 734413  
Ion Ratio Lower Upper  
252 100  
253 22.5 17.5 26.3  
125 10.3 8.6 12.8



#91  
Dibenzo(a,h)anthracene  
Concen: 6.02 ng  
RT: 16.951 min Scan# 2527  
Delta R.T. 0.006 min  
Lab File: BF122671.D  
Acq: 11 Dec 2020 19:17

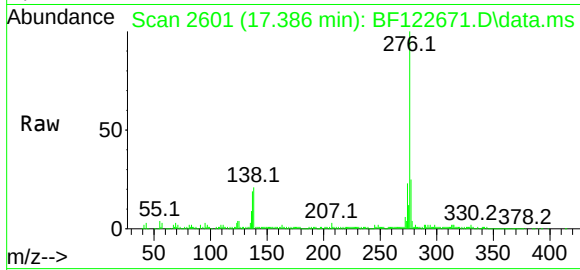
Tgt Ion:278 Resp: 114136  
Ion Ratio Lower Upper  
278 100  
139 18.4 12.0 18.0#  
279 30.5 19.4 29.2#





#92  
 Benzo(g,h,i)perylene  
 Concen: 21.95 ng  
 RT: 17.386 min Scan# 2601  
 Delta R.T. 0.018 min  
 Lab File: BF122671.D  
 Acq: 11 Dec 2020 19:17

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PE-6



Tgt Ion: 276 Resp: 402859  
 Ion Ratio Lower Upper  
 276 100  
 277 24.7 19.3 28.9  
 138 21.2 16.6 24.8

