

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010821\  
 Data File : BF122955.D  
 Acq On : 8 Jan 2021 22:38  
 Operator : JU/CG  
 Sample : M1004-03 2X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PE-2

Quant Time: Jan 08 23:39:37 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF010721.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 08 16:17:19 2021  
 Response via : Initial Calibration

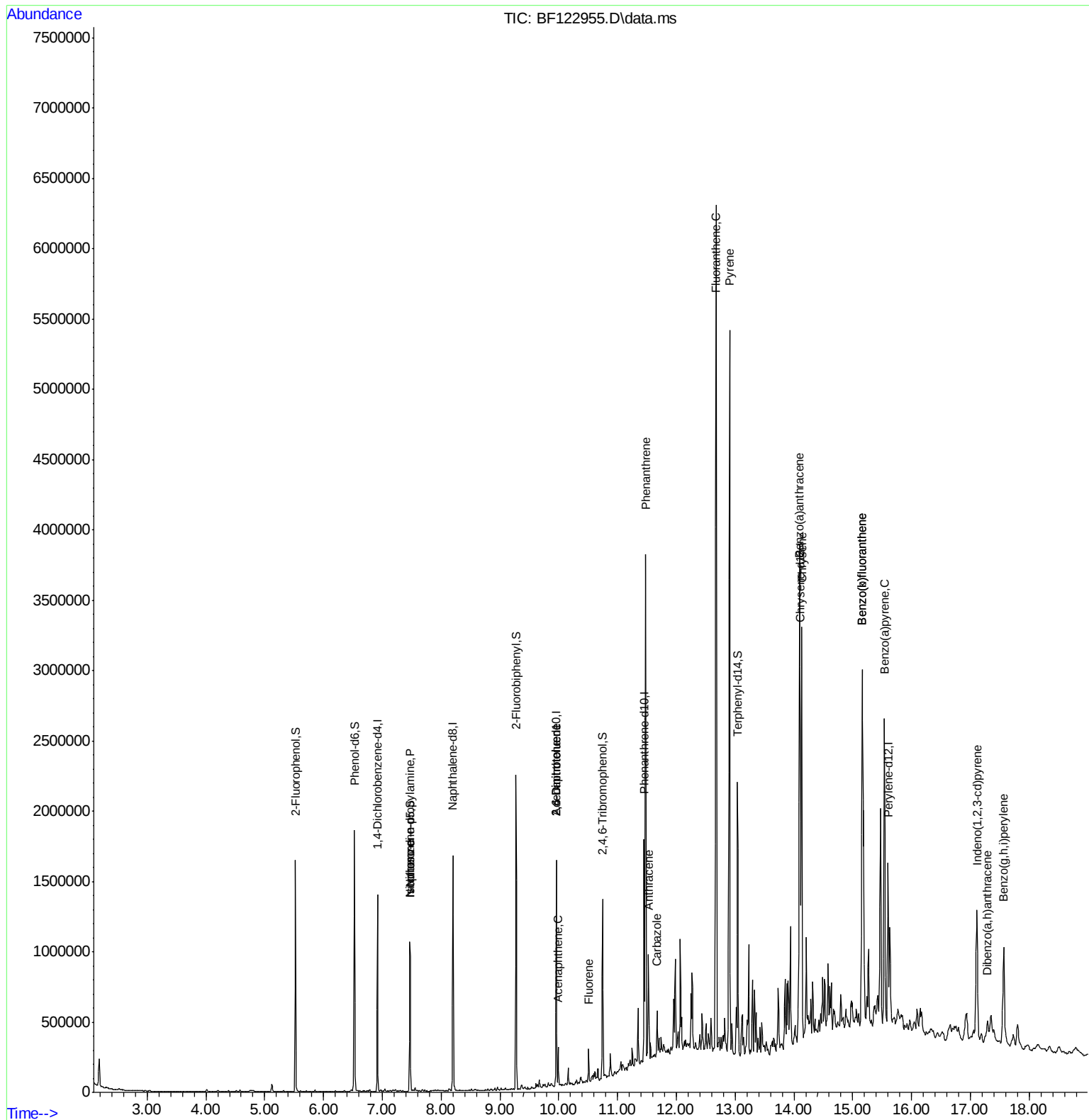
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.916  | 152  | 186217   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.198  | 136  | 676720   | 20.00     | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.957  | 164  | 333259   | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.451 | 188  | 575800   | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12              | 14.104 | 240  | 529341   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12              | 15.598 | 264  | 520737   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.522  | 112  | 457349   | 36.87     | ng    | -0.01    |
| 7) Phenol-d6                  | 6.528  | 99   | 560763   | 33.31     | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.469  | 82   | 313915   | 22.94     | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.745 | 330  | 126545   | 33.62     | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.275  | 172  | 608346   | 25.88     | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.039 | 244  | 553746   | 19.38     | ng    | -0.01    |
| Target Compounds              |        |      |          |           |       |          |
| 9) Benzaldehyde               | 6.463  | 77   | 819      | Below Cal |       | 98       |
| 19) n-Nitroso-di-n-propyla... | 7.469  | 70   | 42105    | 4.10 ng   | #     | 79       |
| 25) Isophorone                | 7.469  | 82   | 313791   | 12.78 ng  | #     | 65       |
| 51) 2,6-Dinitrotoluene        | 9.957  | 165  | 45299    | 8.54 ng   | #     | 31       |
| 52) Acenaphthene              | 9.992  | 154  | 49913    | 2.36 ng   |       | 99       |
| 57) 2,4-Dinitrotoluene        | 9.957  | 165  | 45299    | 6.68 ng   | #     | 25       |
| 58) Fluorene                  | 10.510 | 166  | 64571    | 2.65 ng   |       | 99       |
| 71) Phenanthrene              | 11.480 | 178  | 1401730  | 42.96 ng  |       | 100      |
| 72) Anthracene                | 11.527 | 178  | 264941   | 8.19 ng   |       | 98       |
| 73) Carbazole                 | 11.675 | 167  | 112984   | 3.77 ng   |       | 97       |
| 75) Fluoranthene              | 12.674 | 202  | 2594016  | 74.70 ng  |       | 97       |
| 78) Pyrene                    | 12.904 | 202  | 2262940  | 55.00 ng  |       | 97       |
| 81) Benzo(a)anthracene        | 14.092 | 228  | 1173693  | 33.04 ng  |       | 98       |
| 83) Chrysene                  | 14.133 | 228  | 1134655  | 33.14 ng  |       | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.109 | 276  | 645101   | 19.17 ng  |       | 96       |
| 88) Benzo(b)fluoranthene      | 15.163 | 252  | 2083997  | 56.93 ng  |       | 98       |
| 89) Benzo(k)fluoranthene      | 15.163 | 252  | 2083997  | 61.83 ng  |       | 98       |
| 90) Benzo(a)pyrene            | 15.539 | 252  | 1043616  | 32.44 ng  |       | 97       |
| 91) Dibenzo(a,h)anthracene    | 17.292 | 278  | 102464   | 3.71 ng   |       | 94       |
| 92) Benzo(g,h,i)perylene      | 17.568 | 276  | 591179   | 22.49 ng  |       | 98       |

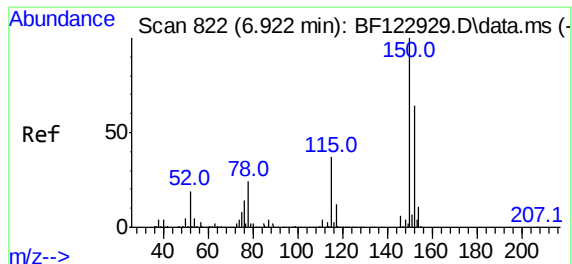
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010821\  
Data File : BF122955.D  
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Sample : M1004-03 2X  
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Quant Time: Jan 08 23:39:37 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF010721.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jan 08 16:17:19 2021  
Response via : Initial Calibration

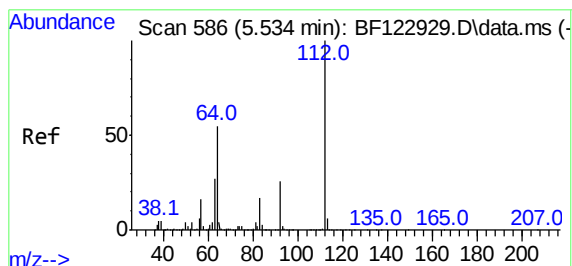
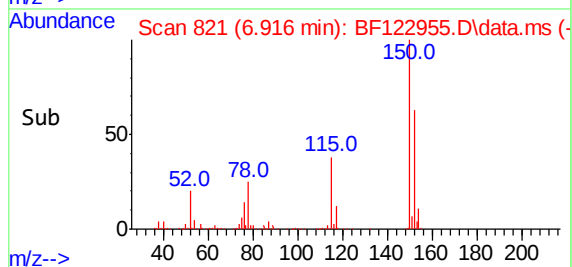
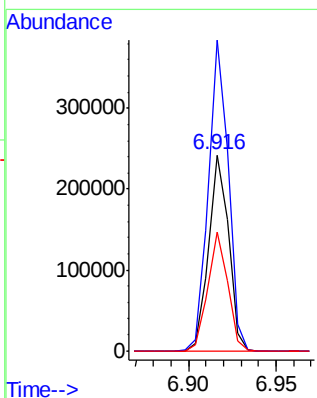
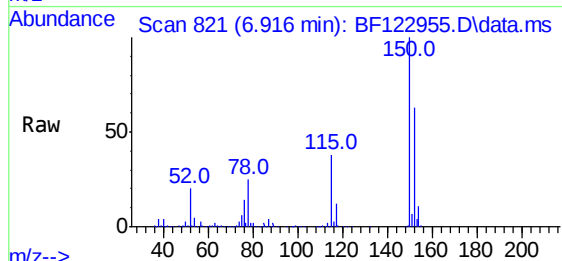




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.916 min Scan# 821  
Delta R.T. -0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

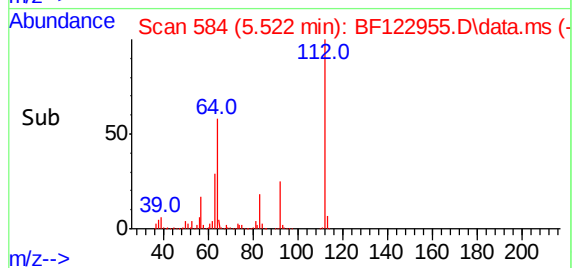
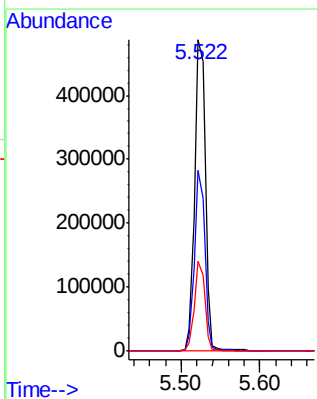
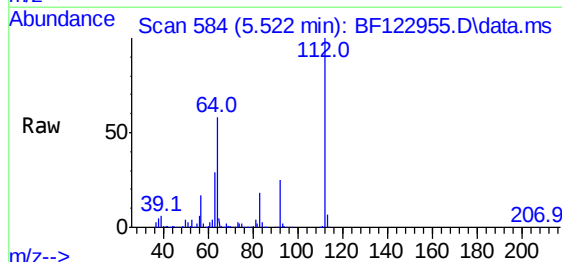
Instrument :  
BNA\_F  
ClientSampleId :  
PE-2

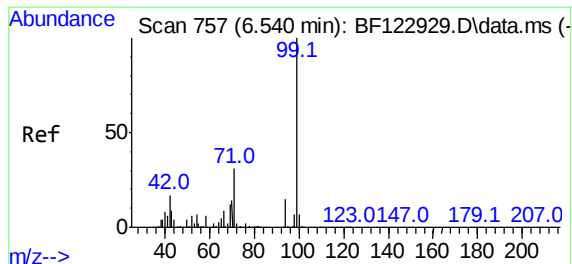
Tgt Ion:152 Resp: 186217  
Ion Ratio Lower Upper  
152 100  
150 158.6 125.8 188.6  
115 60.3 49.3 73.9



#5  
2-Fluorophenol  
Concen: 36.87 ng  
RT: 5.522 min Scan# 584  
Delta R.T. -0.012 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion:112 Resp: 457349  
Ion Ratio Lower Upper  
112 100  
64 58.1 46.9 70.3  
63 28.9 24.5 36.7



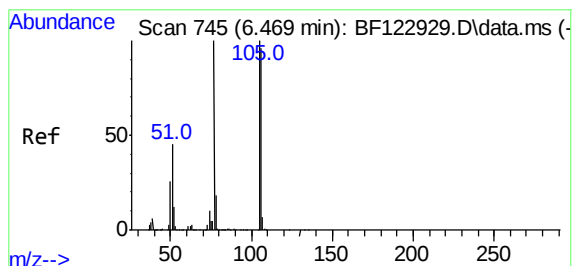
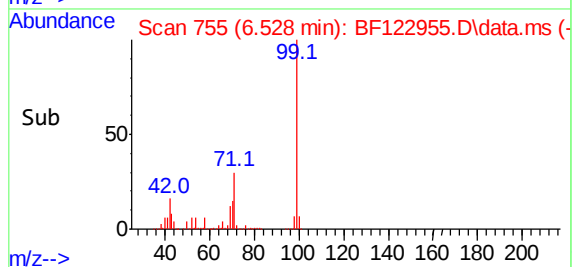
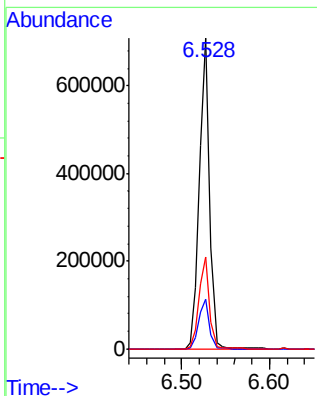
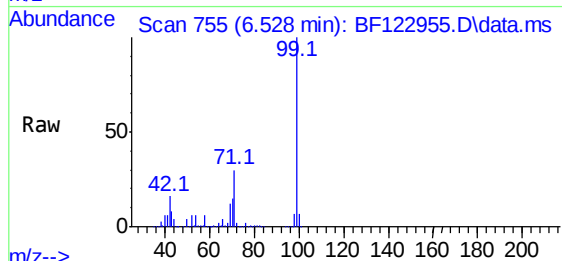


#7  
Phenol-d6  
Concen: 33.31 ng  
RT: 6.528 min Scan# 755  
Delta R.T. -0.012 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Instrument :  
BNA\_F  
ClientSampleId :  
PE-2

Tgt Ion: 99 Resp: 560763  

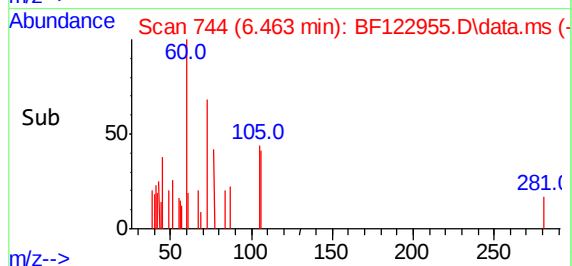
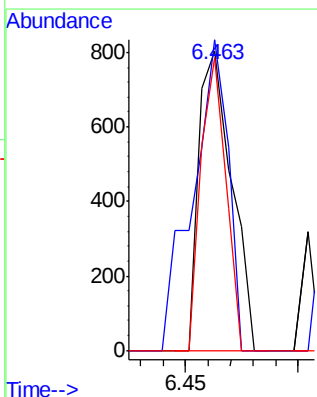
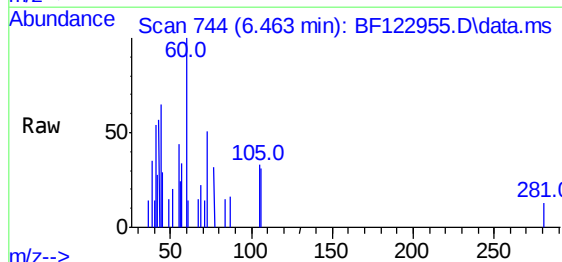
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 16.1  | 13.8  | 20.6  |
| 71  | 29.7  | 26.9  | 40.3  |

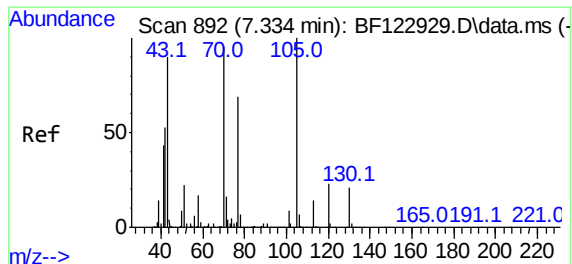


#9  
Benzaldehyde  
Concen: Below Cal  
RT: 6.463 min Scan# 744  
Delta R.T. -0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion: 77 Resp: 819  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 77  | 100   |       |       |
| 105 | 104.0 | 80.6  | 120.6 |
| 106 | 98.0  | 77.2  | 117.2 |

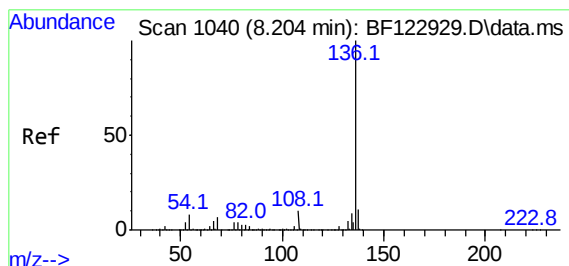
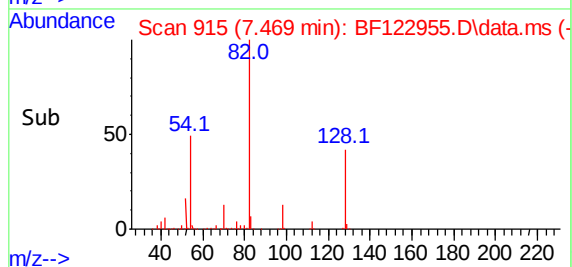
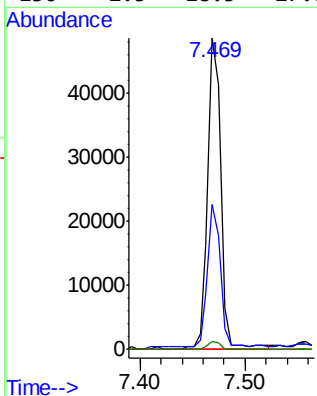
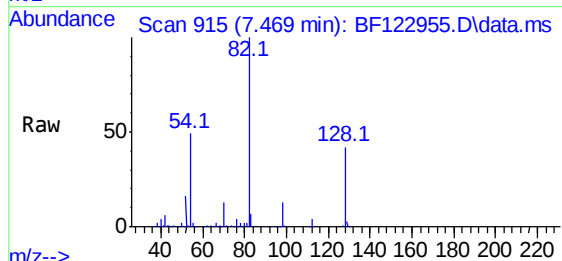




#19  
n-Nitroso-di-n-propylamine  
Concen: 4.10 ng  
RT: 7.469 min Scan# 915  
Delta R.T. 0.135 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

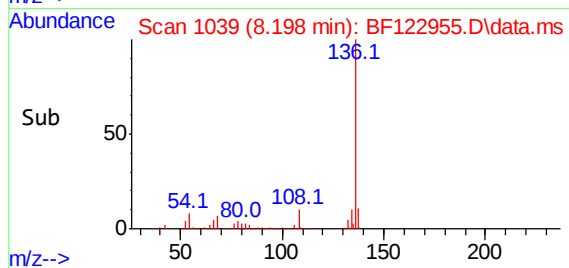
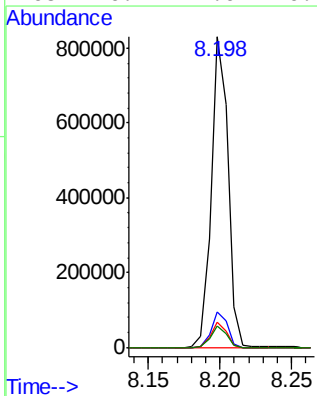
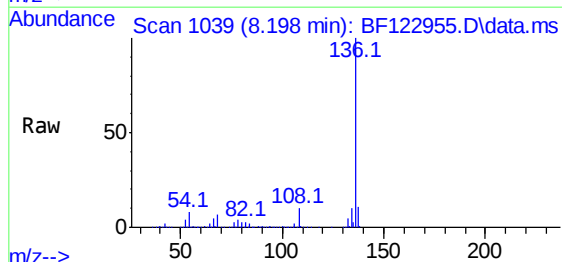
Instrument :  
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ClientSampleId :  
PE-2

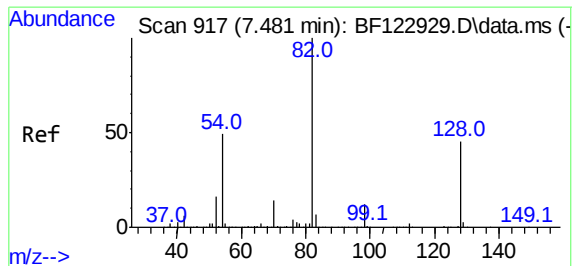
Tgt Ion: 70 Resp: 42105  
Ion Ratio Lower Upper  
70 100  
42 46.6 43.0 64.4  
101 0.0 7.9 11.9#  
130 2.5 18.5 27.7#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.198 min Scan# 1039  
Delta R.T. -0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion:136 Resp: 676720  
Ion Ratio Lower Upper  
136 100  
137 11.5 8.8 13.2  
54 8.0 5.5 8.3  
68 6.7 4.6 6.8

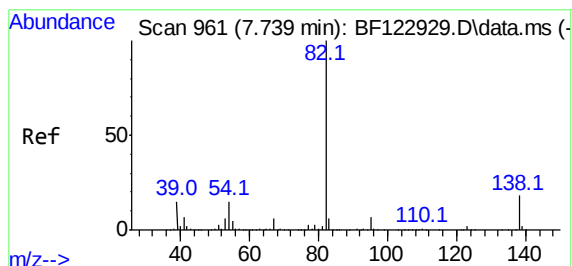
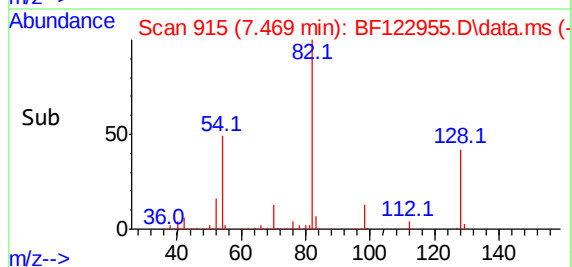
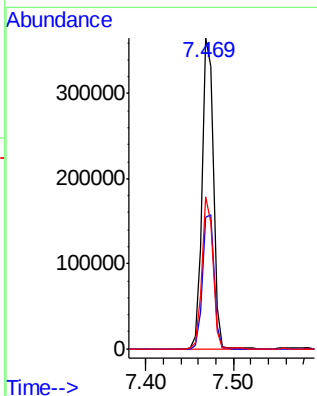
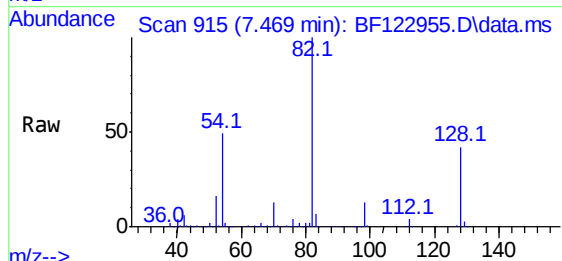




#23  
Nitrobenzene-d5  
Concen: 22.94 ng  
RT: 7.469 min Scan# 915  
Delta R.T. -0.012 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

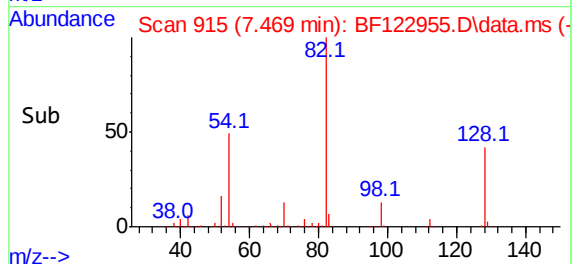
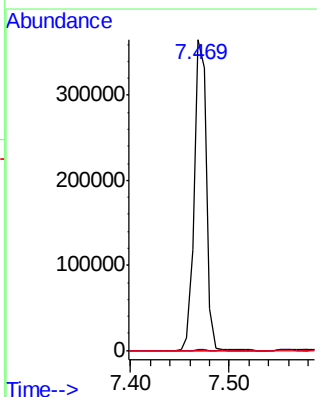
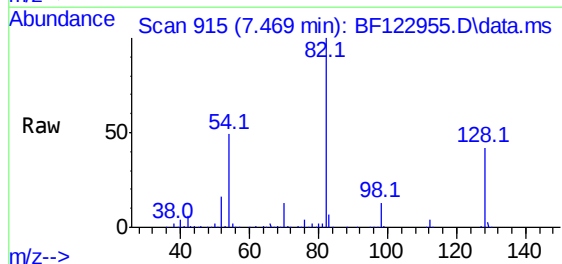
Instrument :  
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ClientSampleId :  
PE-2

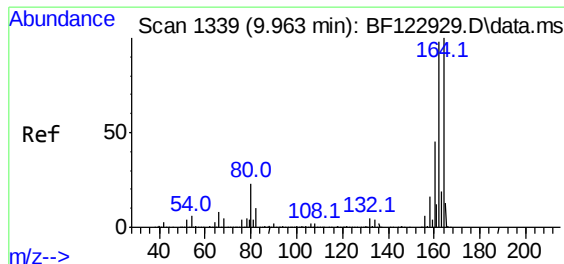
Tgt Ion: 82 Resp: 313915  
Ion Ratio Lower Upper  
82 100  
128 42.4 37.0 55.4  
54 49.1 38.4 57.6



#25  
Isophorone  
Concen: 12.78 ng  
RT: 7.469 min Scan# 915  
Delta R.T. -0.271 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion: 82 Resp: 313791  
Ion Ratio Lower Upper  
82 100  
95 0.1 5.8 8.6#  
138 0.0 14.6 21.8#

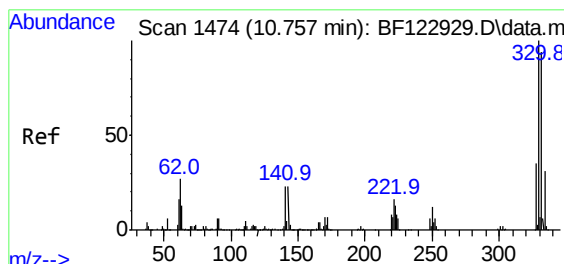
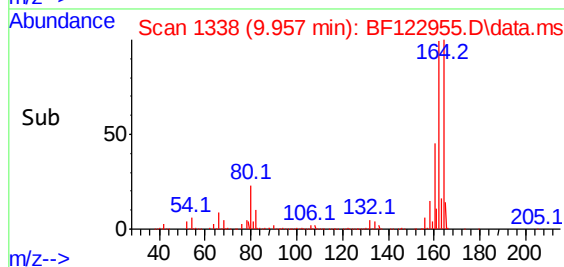
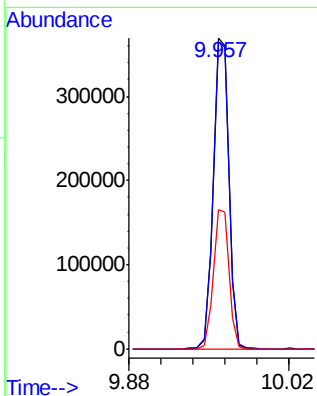
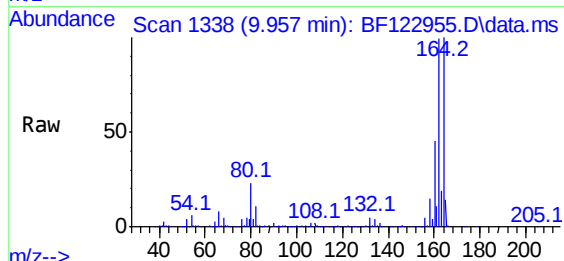




#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.957 min Scan# 1338  
Delta R.T. -0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

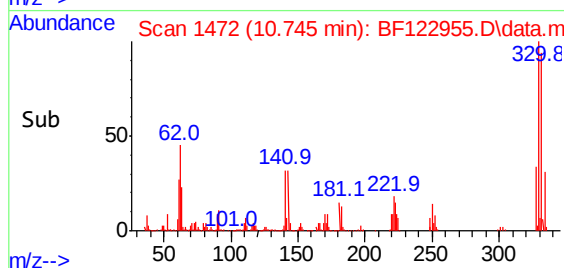
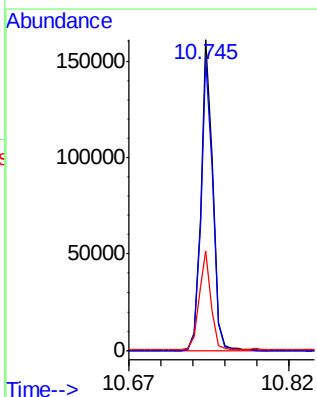
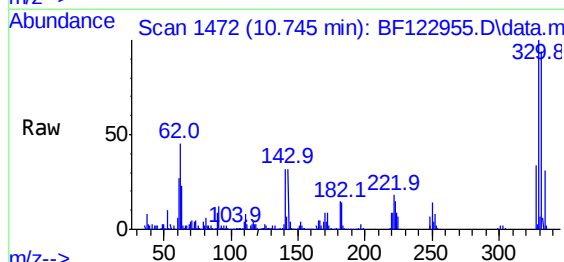
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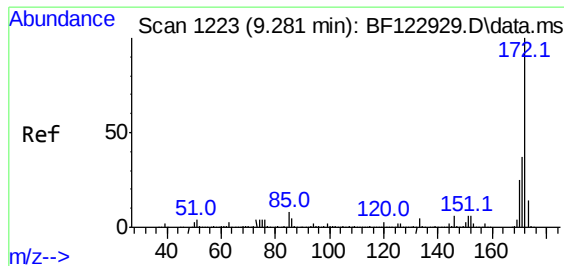
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Ion Ratio Lower Upper  
164 100  
162 98.6 80.8 121.2  
160 44.8 35.4 53.0



#42  
2,4,6-Tribromophenol  
Concen: 33.62 ng  
RT: 10.745 min Scan# 1472  
Delta R.T. -0.012 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion:330 Resp: 126545  
Ion Ratio Lower Upper  
330 100  
332 94.6 77.5 116.3  
141 31.6 23.8 35.8

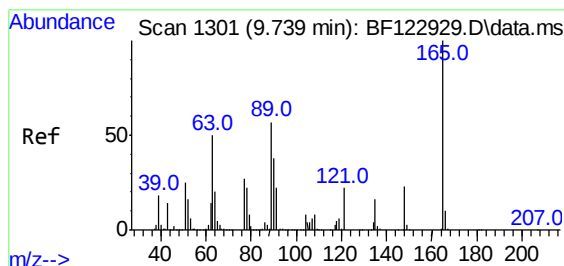
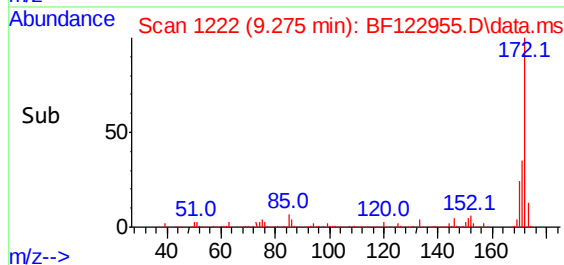
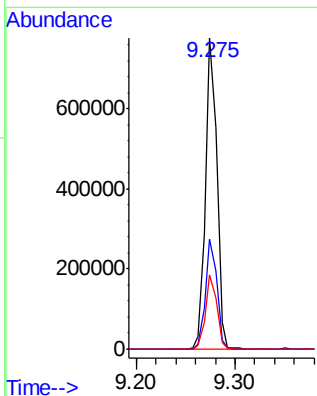
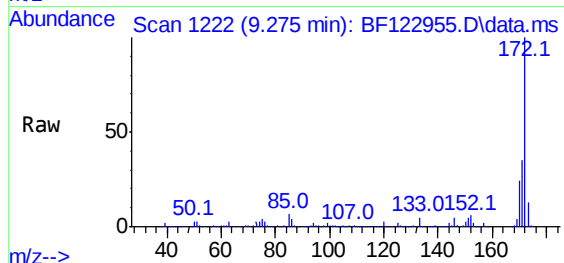




#45  
2-Fluorobiphenyl  
Concen: 25.88 ng  
RT: 9.275 min Scan# 1222  
Delta R.T. -0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

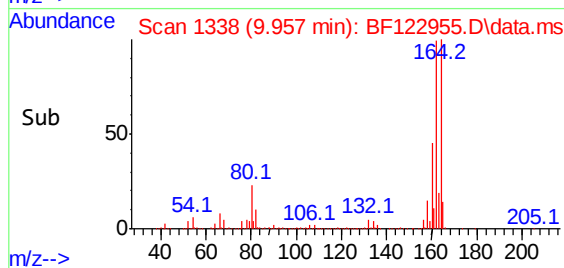
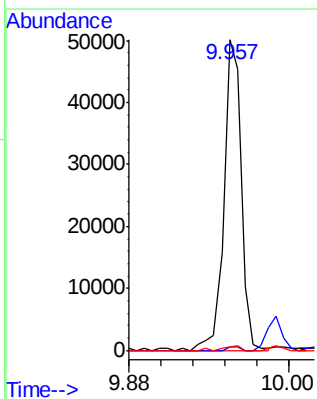
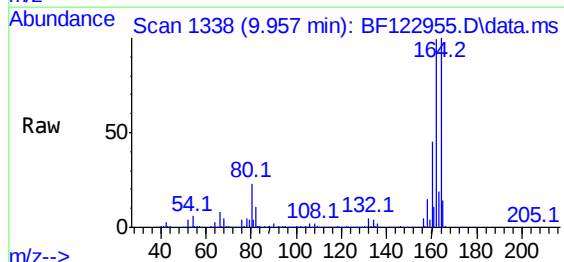
Instrument :  
BNA\_F  
ClientSampleId :  
PE-2

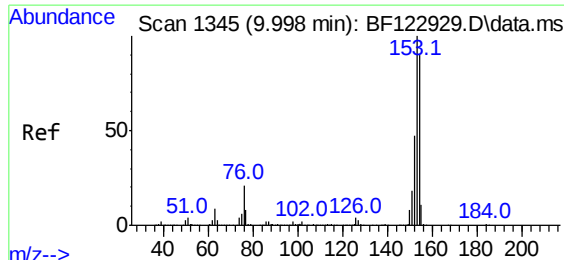
Tgt Ion:172 Resp: 608346  
Ion Ratio Lower Upper  
172 100  
171 35.2 29.6 44.4  
170 23.8 19.5 29.3



#51  
2,6-Dinitrotoluene  
Concen: 8.54 ng  
RT: 9.957 min Scan# 1338  
Delta R.T. 0.218 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion:165 Resp: 45299  
Ion Ratio Lower Upper  
165 100  
63 1.2 36.6 55.0#  
89 1.0 39.4 59.0#





#52

Acenaphthene

Concen: 2.36 ng

RT: 9.992 min Scan# 1344

Delta R.T. -0.006 min

Lab File: BF122955.D

Acq: 8 Jan 2021 22:38

Instrument :

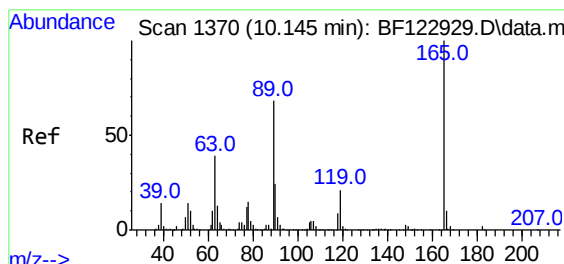
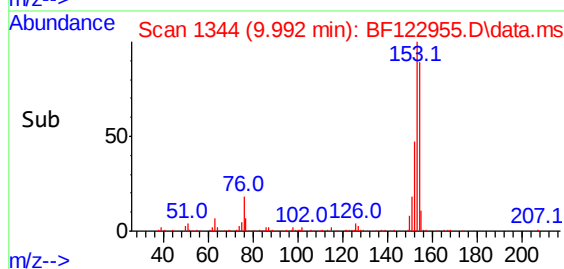
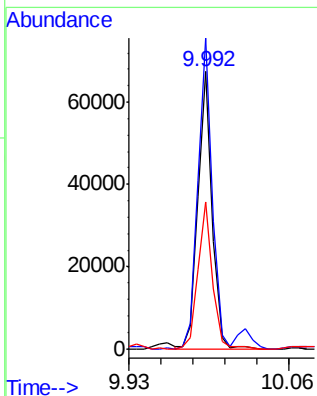
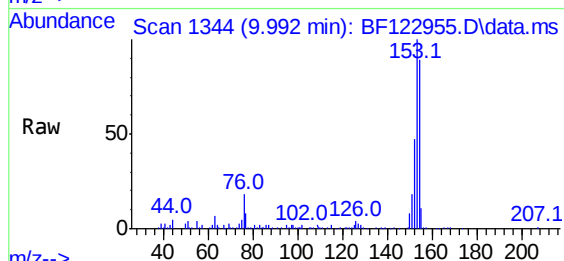
BNA\_F

ClientSampleId :

PE-2

Tgt Ion:154 Resp: 49913

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 154 | 100   |       |       |
| 153 | 112.1 | 89.0  | 133.6 |
| 152 | 53.0  | 42.7  | 64.1  |



#57

2,4-Dinitrotoluene

Concen: 6.68 ng

RT: 9.957 min Scan# 1338

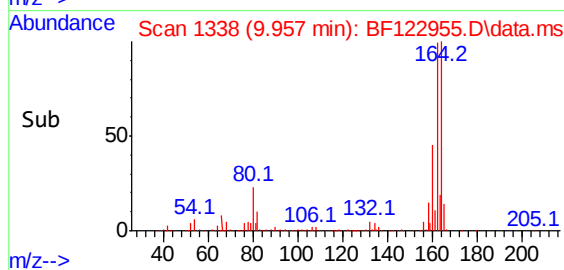
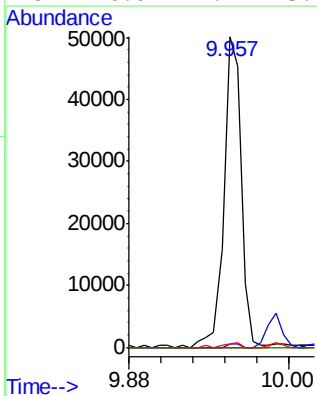
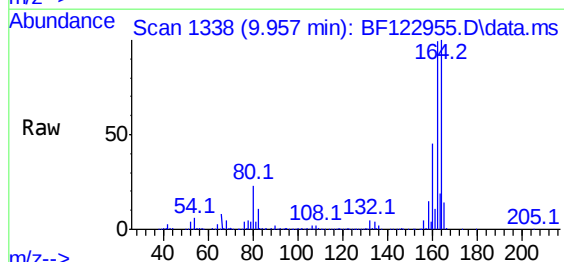
Delta R.T. -0.188 min

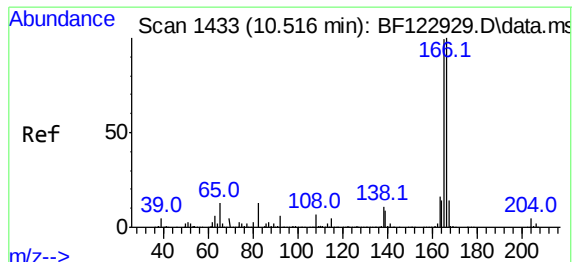
Lab File: BF122955.D

Acq: 8 Jan 2021 22:38

Tgt Ion:165 Resp: 45299

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 1.2   | 34.3  | 51.5# |
| 89  | 1.0   | 55.2  | 82.8# |
| 182 | 0.0   | 2.2   | 3.2#  |

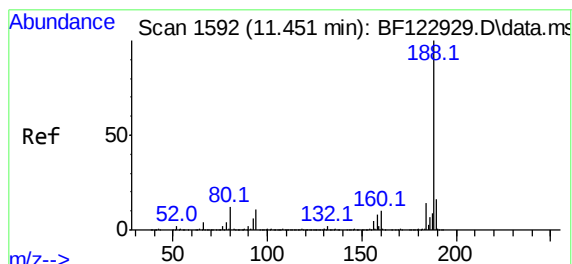
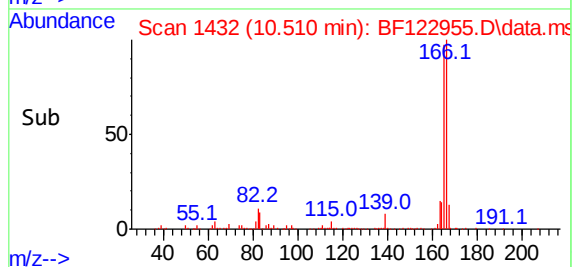
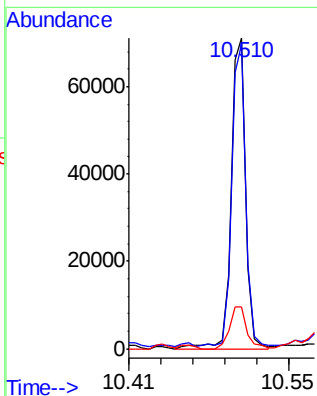
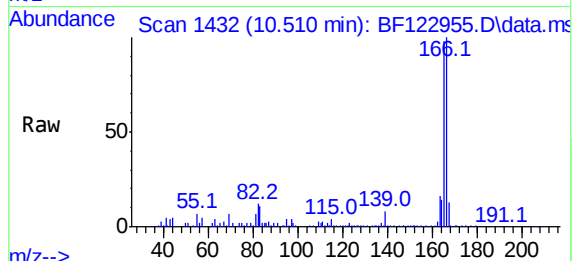




#58  
Fluorene  
Concen: 2.65 ng  
RT: 10.510 min Scan# 1432  
Delta R.T. -0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

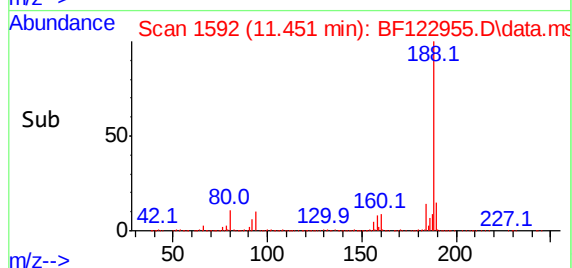
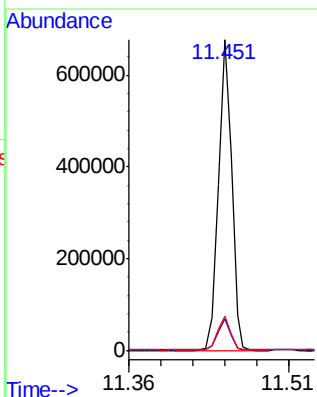
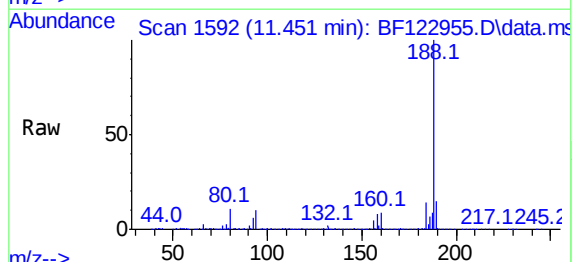
Instrument :  
BNA\_F  
ClientSampleId :  
PE-2

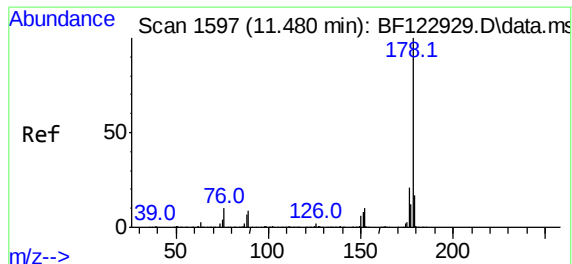
Tgt Ion:166 Resp: 64571  
Ion Ratio Lower Upper  
166 100  
165 97.8 79.4 119.0  
167 13.4 10.9 16.3



#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.451 min Scan# 1592  
Delta R.T. -0.000 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion:188 Resp: 575800  
Ion Ratio Lower Upper  
188 100  
94 10.1 7.4 11.2  
80 10.8 8.2 12.4

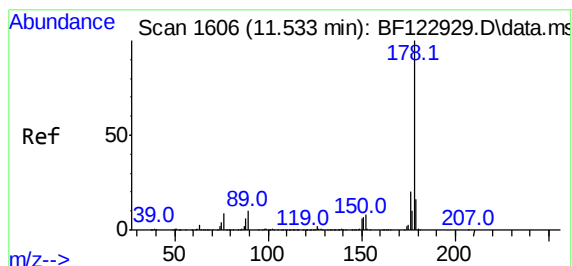
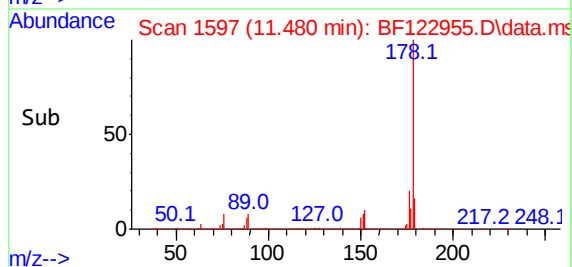
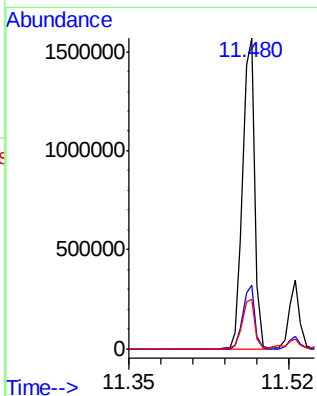
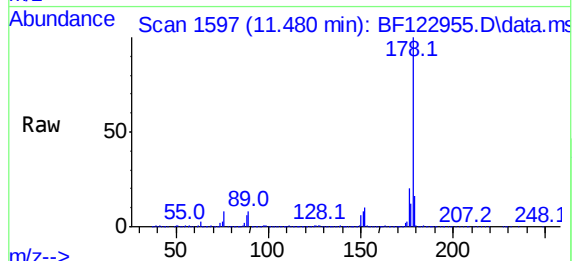




#71  
Phenanthrene  
Concen: 42.96 ng  
RT: 11.480 min Scan# 1597  
Delta R.T. -0.000 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

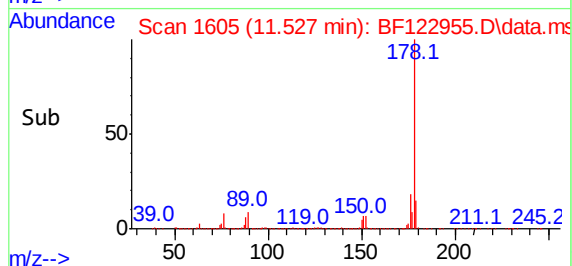
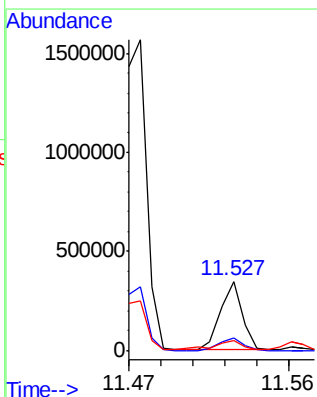
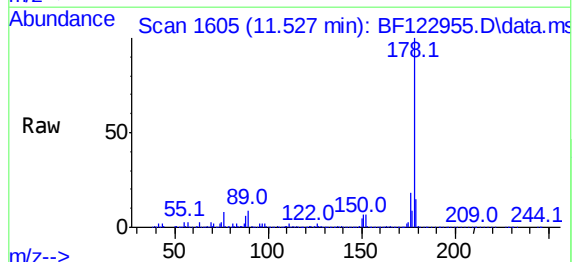
Instrument :  
BNA\_F  
ClientSampled :  
PE-2

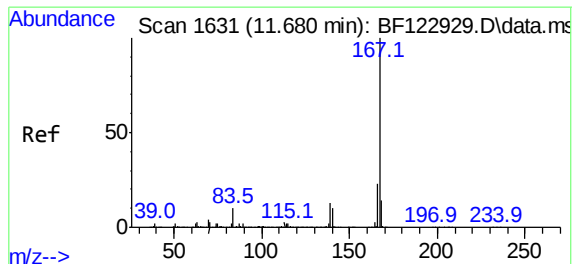
Tgt Ion:178 Resp: 1401730  
Ion Ratio Lower Upper  
178 100  
176 20.4 16.2 24.2  
179 15.9 12.7 19.1



#72  
Anthracene  
Concen: 8.19 ng  
RT: 11.527 min Scan# 1605  
Delta R.T. -0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion:178 Resp: 264941  
Ion Ratio Lower Upper  
178 100  
176 18.4 15.6 23.4  
179 15.2 12.8 19.2



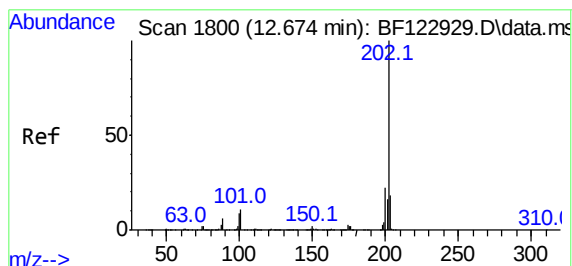
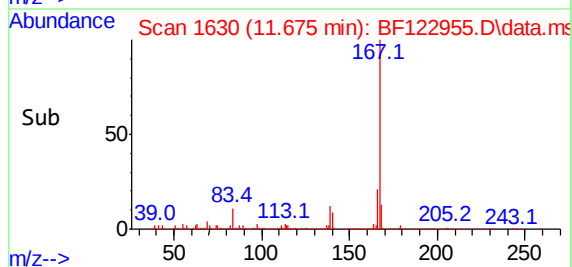
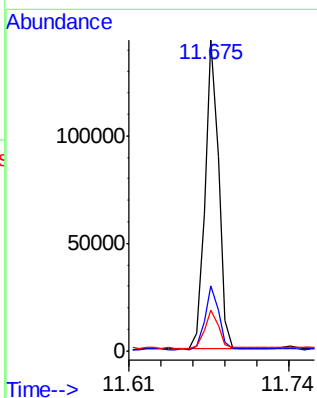
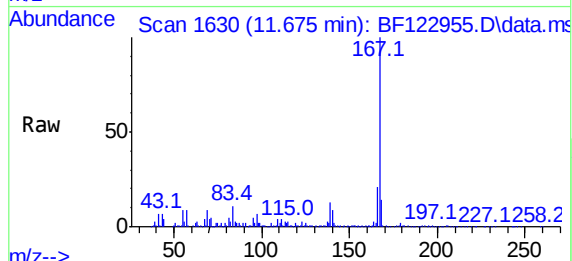


#73  
 Carbazole  
 Concen: 3.77 ng  
 RT: 11.675 min Scan# 1630  
 Delta R.T. -0.006 min  
 Lab File: BF122955.D  
 Acq: 8 Jan 2021 22:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PE-2

Tgt Ion:167 Resp: 112984  

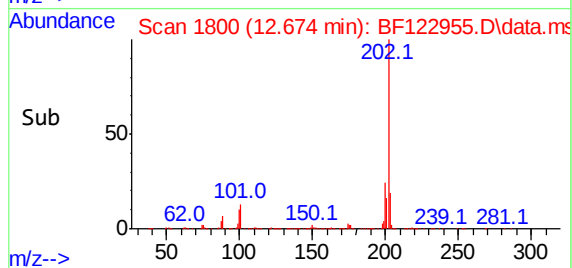
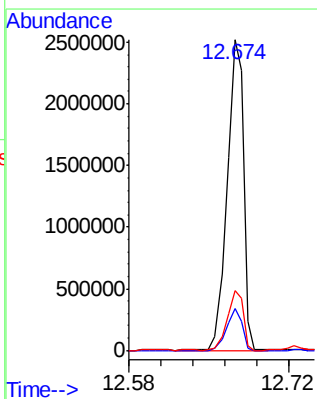
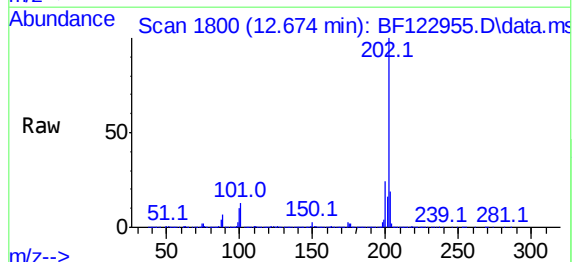
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 167 | 100   |       |       |
| 166 | 20.9  | 18.0  | 27.0  |
| 139 | 12.9  | 10.9  | 16.3  |

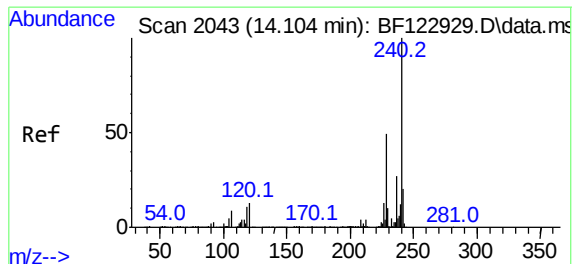


#75  
 Fluoranthene  
 Concen: 74.70 ng  
 RT: 12.674 min Scan# 1800  
 Delta R.T. -0.000 min  
 Lab File: BF122955.D  
 Acq: 8 Jan 2021 22:38

Tgt Ion:202 Resp: 2594016  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 13.3  | 0.0   | 32.2  |
| 203 | 19.4  | 0.0   | 38.1  |

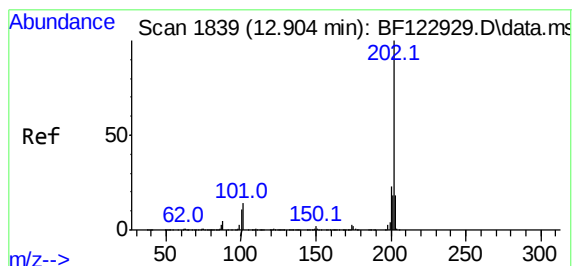
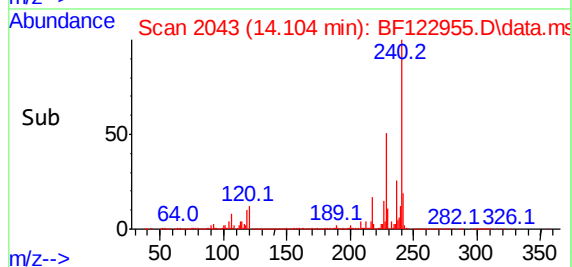
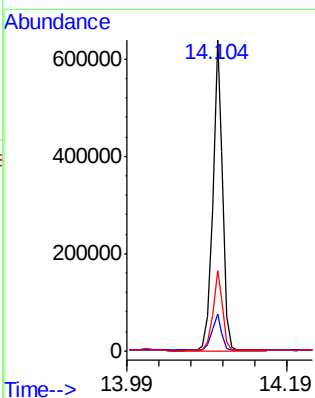
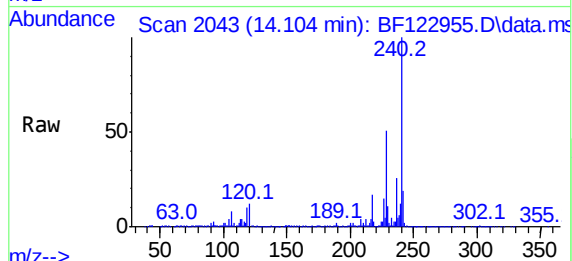




#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.104 min Scan# 2043  
Delta R.T. -0.000 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

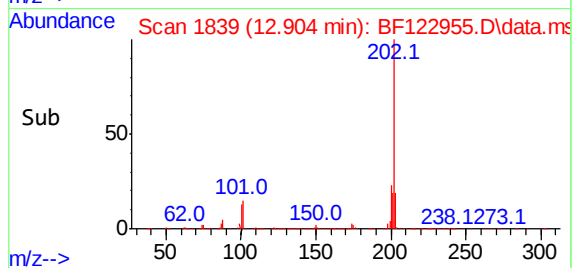
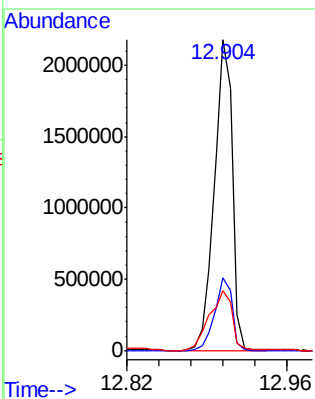
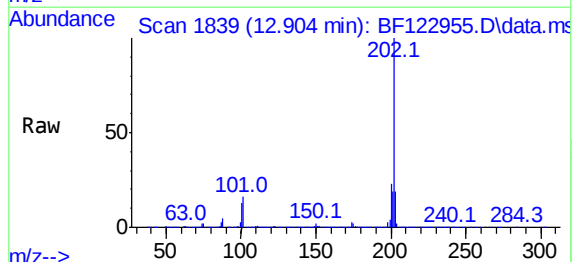
Instrument :  
BNA\_F  
ClientSampleId :  
PE-2

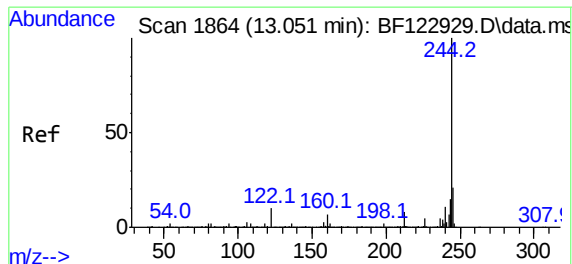
Tgt Ion:240 Resp: 529341  
Ion Ratio Lower Upper  
240 100  
120 11.9 8.6 12.8  
236 25.7 20.3 30.5



#78  
Pyrene  
Concen: 55.00 ng  
RT: 12.904 min Scan# 1839  
Delta R.T. -0.000 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion:202 Resp: 2262940  
Ion Ratio Lower Upper  
202 100  
200 23.4 17.6 26.4  
203 19.1 14.6 21.8

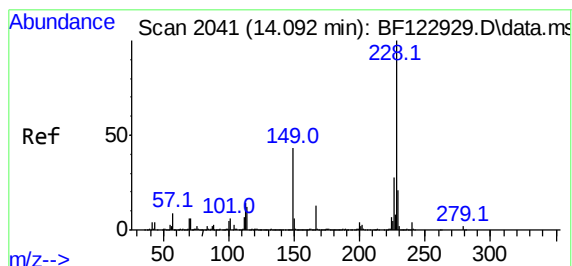
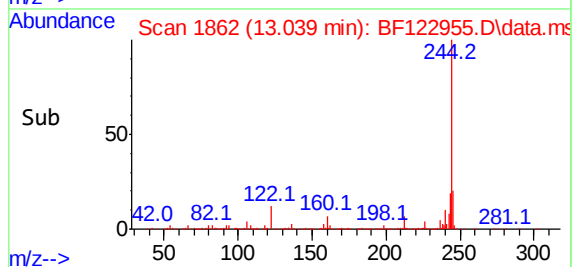
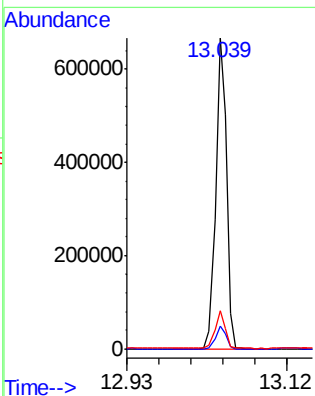
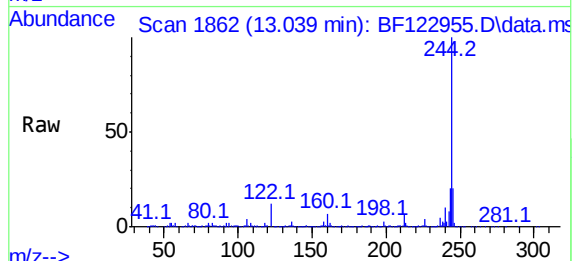




#79  
Terphenyl-d14  
Concen: 19.38 ng  
RT: 13.039 min Scan# 1862  
Delta R.T. -0.012 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

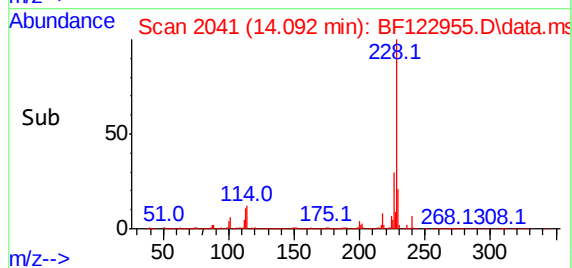
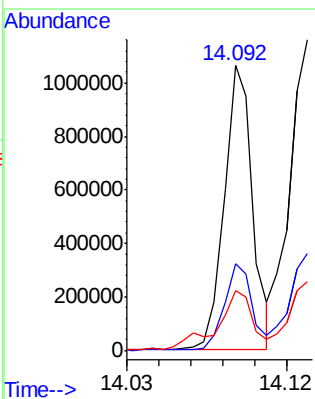
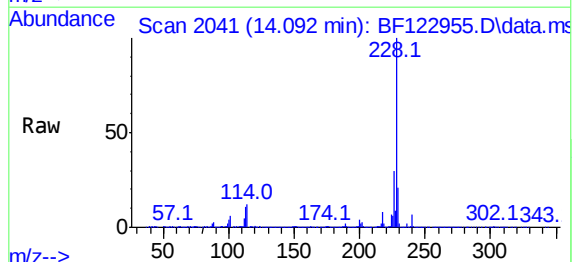
Instrument :  
BNA\_F  
ClientSampleId :  
PE-2

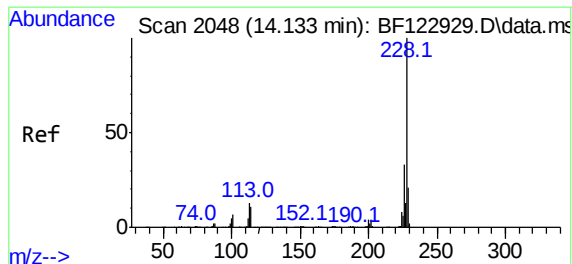
Tgt Ion:244 Resp: 553746  
Ion Ratio Lower Upper  
244 100  
212 7.1 5.7 8.5  
122 12.1 8.3 12.5



#81  
Benzo(a)anthracene  
Concen: 33.04 ng  
RT: 14.092 min Scan# 2041  
Delta R.T. -0.000 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion:228 Resp: 1173693  
Ion Ratio Lower Upper  
228 100  
226 30.5 23.0 34.4  
229 21.2 16.6 24.8

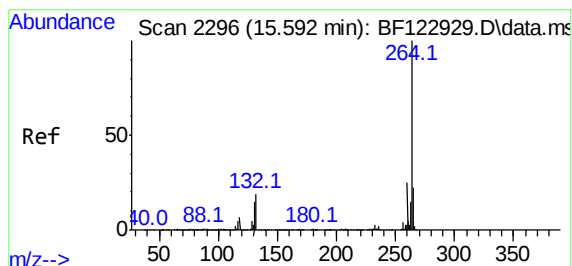
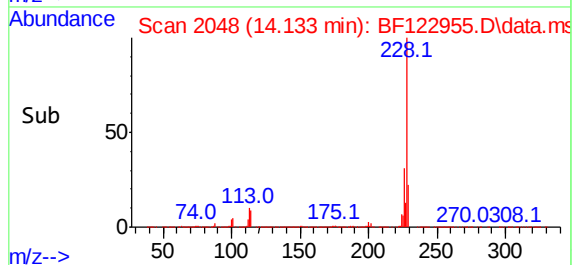
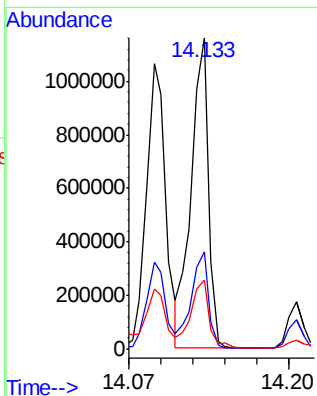
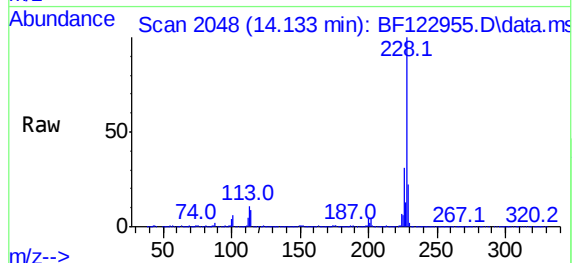




#83  
Chrysene  
Concen: 33.14 ng  
RT: 14.133 min Scan# 2048  
Delta R.T. -0.000 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

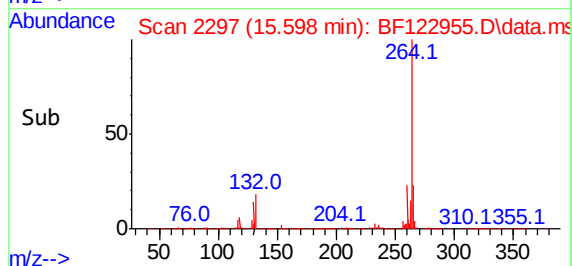
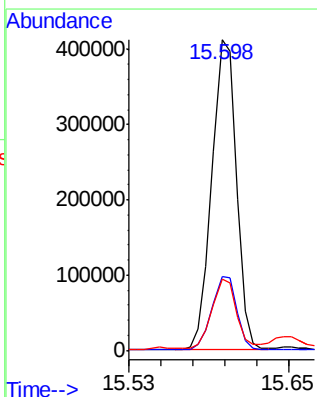
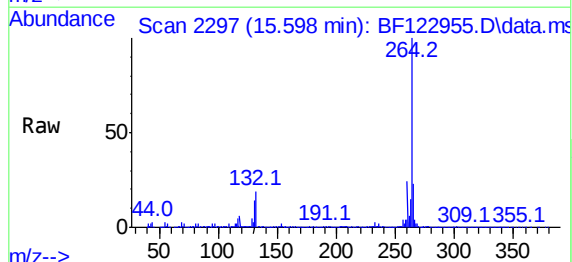
Instrument :  
BNA\_F  
ClientSampleId :  
PE-2

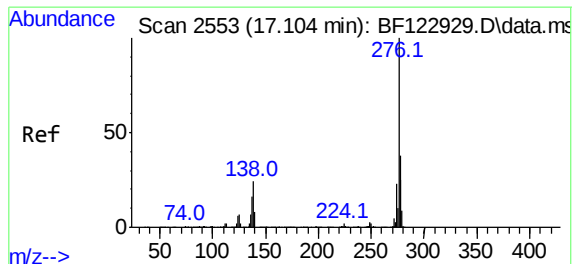
Tgt Ion:228 Resp: 1134655  
Ion Ratio Lower Upper  
228 100  
226 31.3 24.6 36.8  
229 22.0 15.8 23.6



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.598 min Scan# 2297  
Delta R.T. 0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion:264 Resp: 520737  
Ion Ratio Lower Upper  
264 100  
260 23.7 18.6 28.0  
265 23.1 17.0 25.6

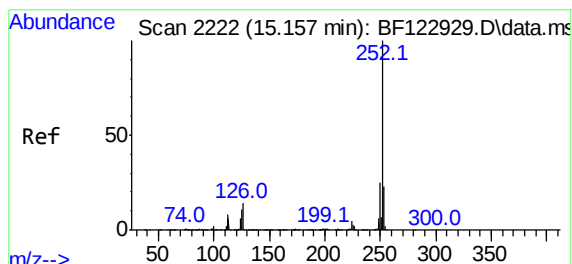
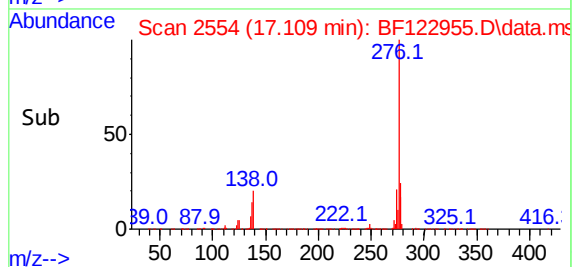
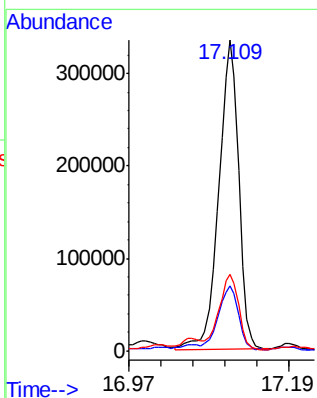
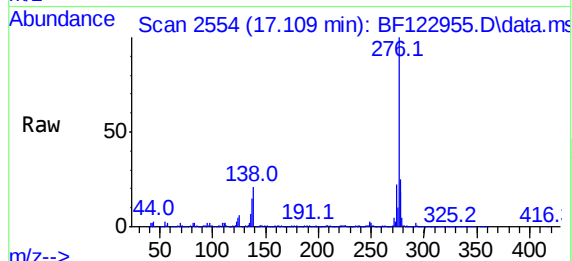




#87  
Indeno(1,2,3-cd)pyrene  
Concen: 19.17 ng  
RT: 17.109 min Scan# 2554  
Delta R.T. 0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

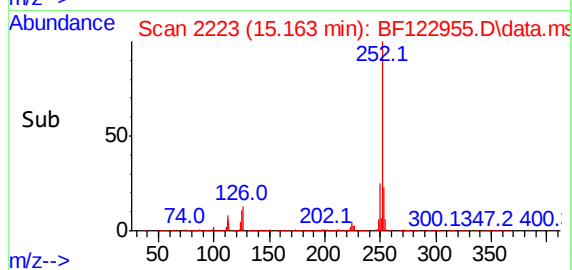
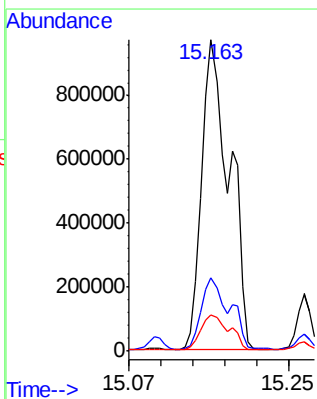
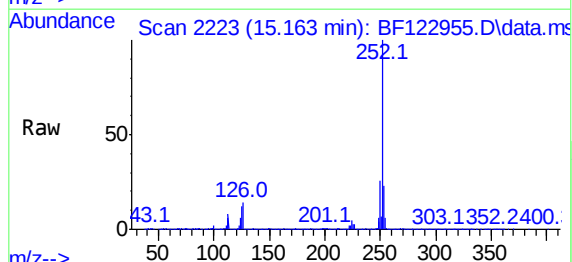
Instrument :  
BNA\_F  
ClientSampleId :  
PE-2

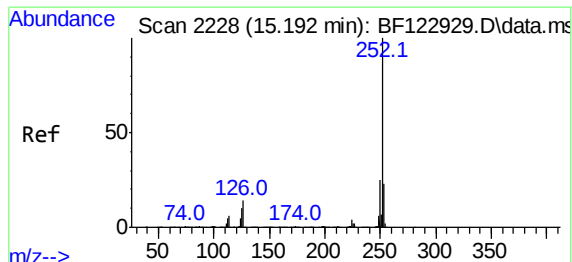
Tgt Ion:276 Resp: 645101  
Ion Ratio Lower Upper  
276 100  
138 20.6 18.7 28.1  
277 23.9 20.2 30.4



#88  
Benzo(b)fluoranthene  
Concen: 56.93 ng  
RT: 15.163 min Scan# 2223  
Delta R.T. 0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion:252 Resp: 2083997  
Ion Ratio Lower Upper  
252 100  
253 23.3 18.3 27.5  
125 11.5 8.1 12.1

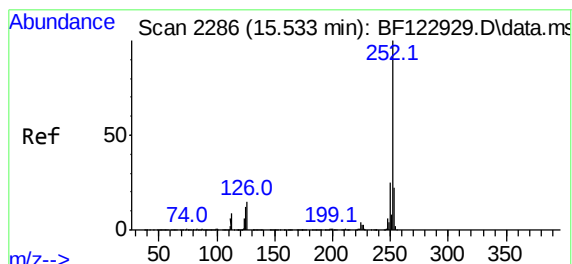
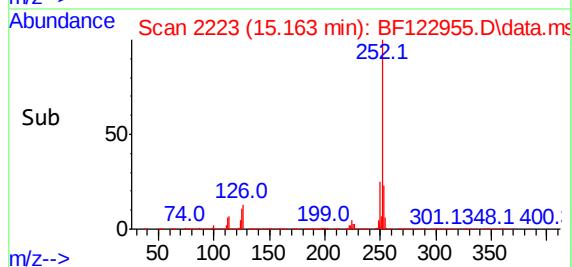
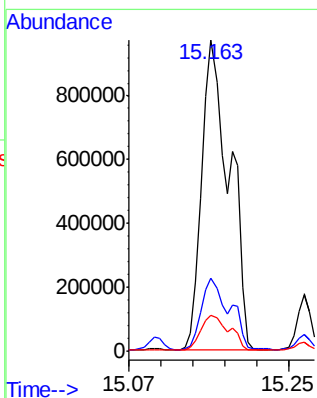
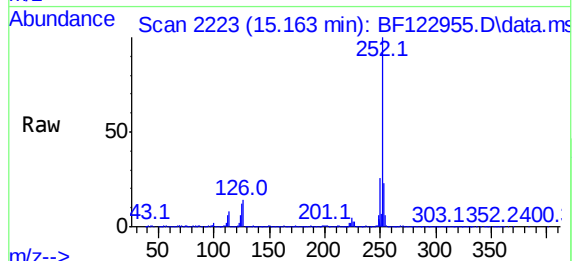




#89  
Benzo(k)fluoranthene  
Concen: 61.83 ng  
RT: 15.163 min Scan# 2223  
Delta R.T. -0.029 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

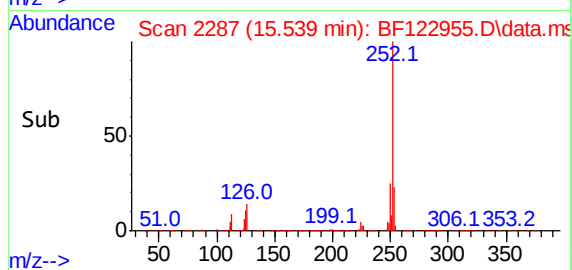
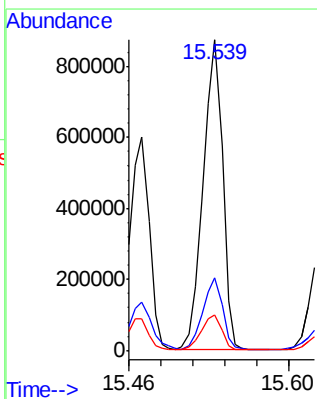
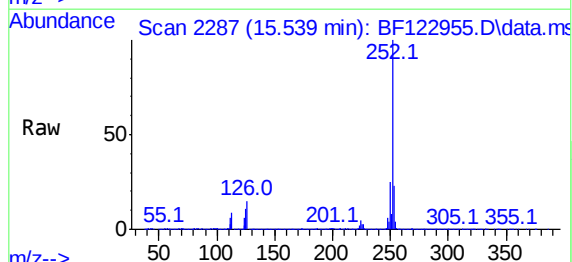
Instrument :  
BNA\_F  
ClientSampleId :  
PE-2

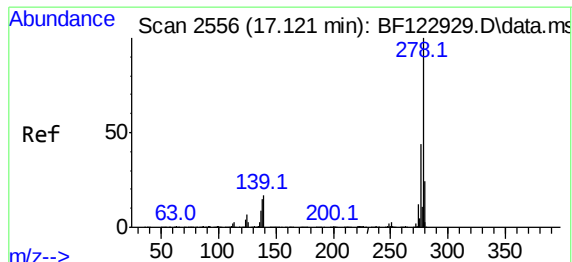
Tgt Ion:252 Resp: 2083997  
Ion Ratio Lower Upper  
252 100  
253 23.3 17.8 26.8  
125 11.5 8.4 12.6



#90  
Benzo(a)pyrene  
Concen: 32.44 ng  
RT: 15.539 min Scan# 2287  
Delta R.T. 0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion:252 Resp: 1043616  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.5 26.3  
125 11.4 8.6 12.8

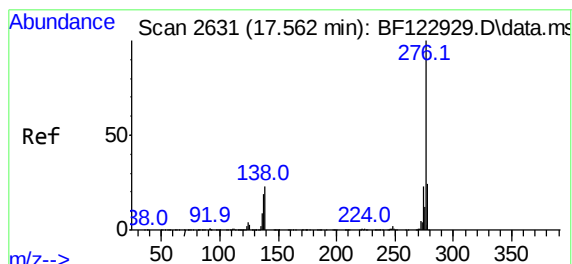
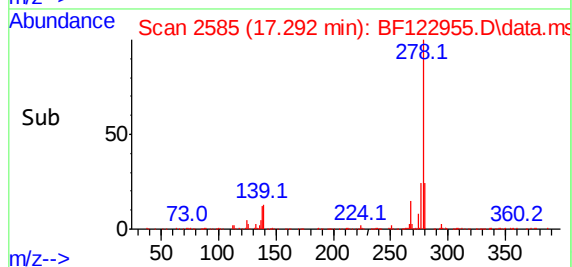
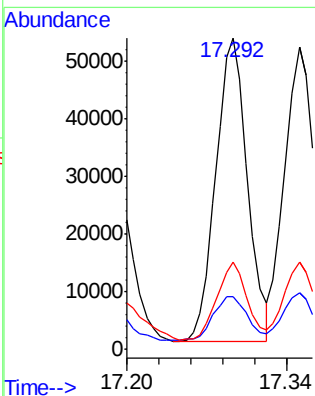
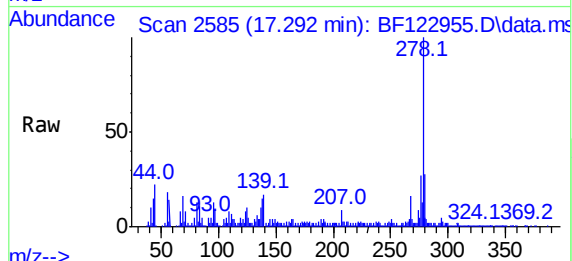




#91  
Dibenzo(a,h)anthracene  
Concen: 3.71 ng  
RT: 17.292 min Scan# 2585  
Delta R.T. 0.171 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Instrument :  
BNA\_F  
ClientSampleId :  
PE-2

Tgt Ion:278 Resp: 102464  
Ion Ratio Lower Upper  
278 100  
139 16.7 12.0 18.0  
279 28.1 19.4 29.2



#92  
Benzo(g,h,i)perylene  
Concen: 22.49 ng  
RT: 17.568 min Scan# 2632  
Delta R.T. 0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion:276 Resp: 591179  
Ion Ratio Lower Upper  
276 100  
277 24.9 19.3 28.9  
138 22.4 16.6 24.8

