

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP121721\  
 Data File : BP008486.D  
 Acq On : 17 Dec 2021 23:32  
 Operator : CG/JU  
 Sample : M5873-07DL 10X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 A2-8-6.5DL

Quant Time: Dec 18 06:18:47 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP121421.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 14 17:59:47 2021  
 Response via : Initial Calibration

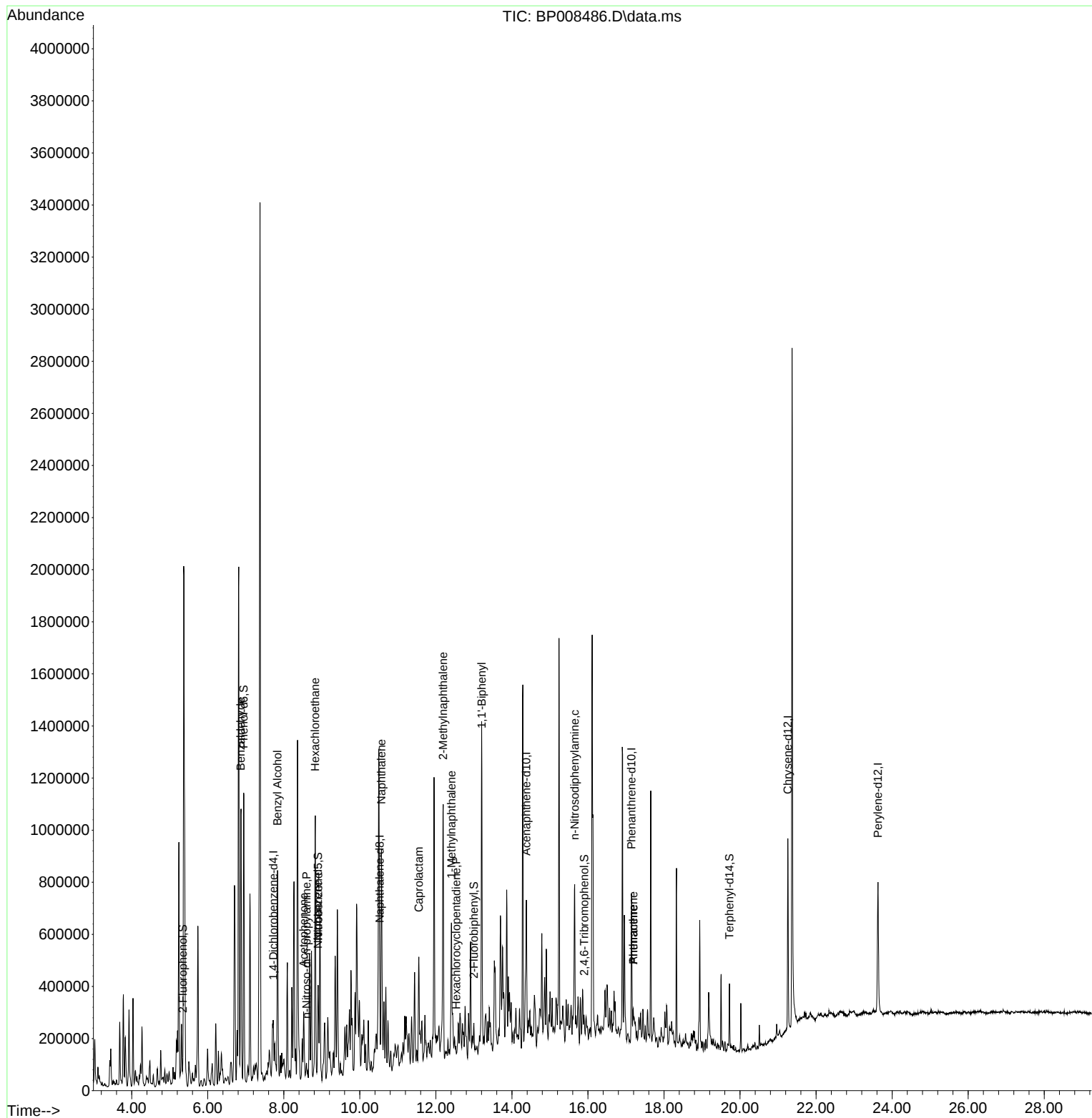
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.728  | 152  | 61535    | 20.000    | ng    | -0.02    |
| 21) Naphthalene-d8            | 10.522 | 136  | 228592   | 20.000    | ng    | -0.02    |
| 39) Acenaphthene-d10          | 14.380 | 164  | 150691   | 20.000    | ng    | -0.02    |
| 64) Phenanthrene-d10          | 17.145 | 188  | 320921   | 20.000    | ng    | -0.02    |
| 76) Chrysene-d12              | 21.257 | 240  | 368222   | 20.000    | ng    | -0.01    |
| 86) Perylene-d12              | 23.627 | 264  | 404368   | 20.000    | ng    | -0.01    |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.346  | 112  | 26393    | 6.774     | ng    | 0.00     |
| 7) Phenol-d6                  | 6.946  | 99   | 36487    | 6.972     | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.898  | 82   | 28499    | 5.282     | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 15.904 | 330  | 11148    | 5.034     | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 12.998 | 172  | 63447    | 5.352     | ng    | -0.02    |
| 79) Terphenyl-d14             | 19.721 | 244  | 107890   | 5.099     | ng    | -0.01    |
| Target Compounds              |        |      |          |           |       |          |
| 2) 1,4-Dioxane                | 3.240  | 88   | 64       | Below Cal |       | Qvalue   |
| 9) Benzaldehyde               | 6.869  | 77   | 71020    | 22.242    | ng    | # 19     |
| 15) Benzyl Alcohol            | 7.834  | 79   | 47793    | 11.353    | ng    | # 16     |
| 18) Hexachloroethane          | 8.828  | 117  | 90977    | 52.470    | ng    | # 1      |
| 19) n-Nitroso-di-n-propyla... | 8.598  | 70   | 7961     | 2.051     | ng    | # 60     |
| 22) Acetophenone              | 8.522  | 105  | 160784   | 23.917    | ng    | # 58     |
| 24) Nitrobenzene              | 8.904  | 77   | 11980    | 2.366     | ng    | # 3      |
| 31) Naphthalene               | 10.569 | 128  | 453393   | 37.822    | ng    | 97       |
| 35) Caprolactam               | 11.551 | 113  | 13975    | 18.712    | ng    | # 21     |
| 37) 2-Methylnaphthalene       | 12.192 | 142  | 442378   | 53.543    | ng    | 98       |
| 38) 1-Methylnaphthalene       | 12.410 | 142  | 214632   | 26.683    | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 12.539 | 237  | 17       | 8.661     | ng    | 87       |
| 46) 1,1'-Biphenyl             | 13.210 | 154  | 32766    | 2.814     | ng    | 99       |
| 66) n-Nitrosodiphenylamine    | 15.651 | 169  | 34165    | 3.381     | ng    | # 50     |
| 71) Phenanthrene              | 17.192 | 178  | 67397    | 3.877     | ng    | 97       |
| 72) Anthracene                | 17.192 | 178  | 67436    | 3.932     | ng    | 97       |

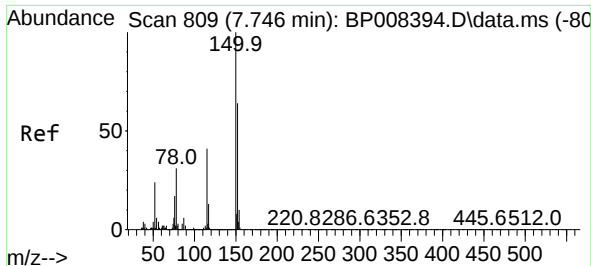
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP121721\  
Data File : BP008486.D  
Acq On : 17 Dec 2021 23:32  
Operator : CG/JU  
Sample : M5873-07DL 10X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
A2-8-6.5DL

Quant Time: Dec 18 06:18:47 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP121421.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 14 17:59:47 2021  
Response via : Initial Calibration

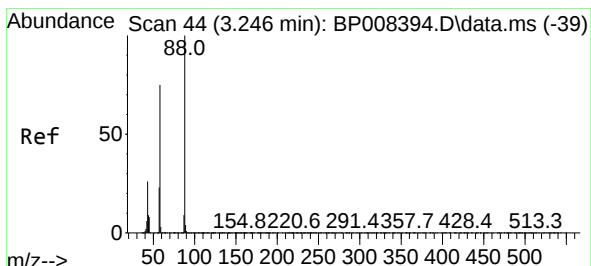
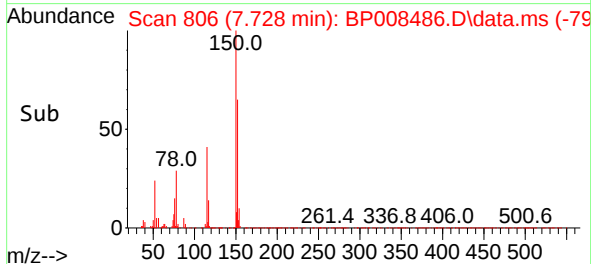
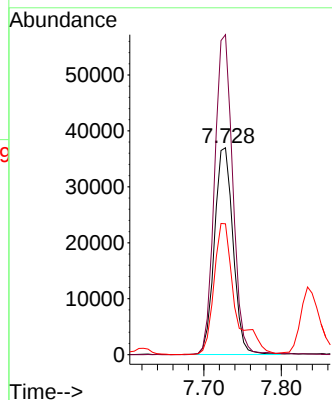
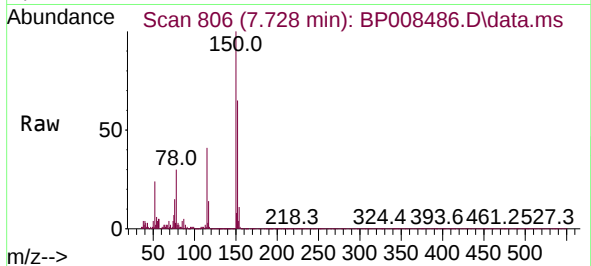




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.728 min Scan# 80  
Delta R.T. -0.018 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

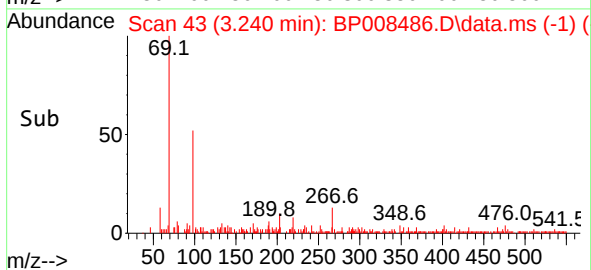
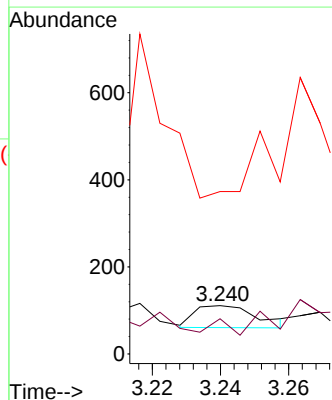
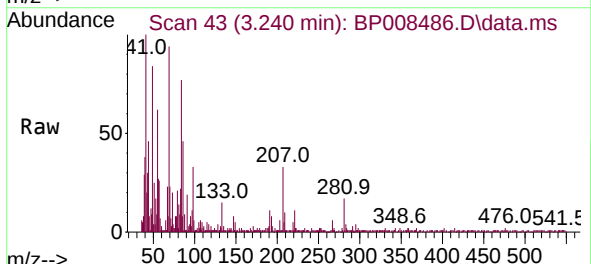
Instrument :  
BNA\_P  
ClientSampleId :  
A2-8-6.5DL

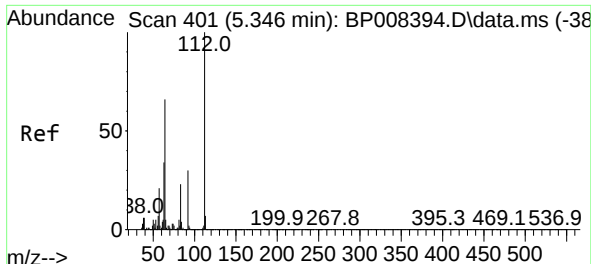
Tgt Ion:152 Resp: 61535  
Ion Ratio Lower Upper  
152 100  
150 154.7 125.7 188.5  
115 63.3 50.7 76.1



#2  
1,4-Dioxane  
Concen: Below Cal  
RT: 3.240 min Scan# 43  
Delta R.T. -0.006 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

Tgt Ion: 88 Resp: 64  
Ion Ratio Lower Upper  
88 100  
58 0.0 63.5 95.3#  
43 0.0 23.4 35.2#

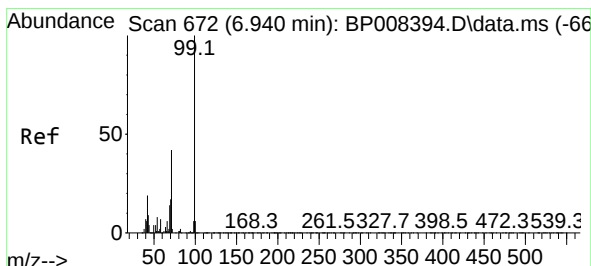
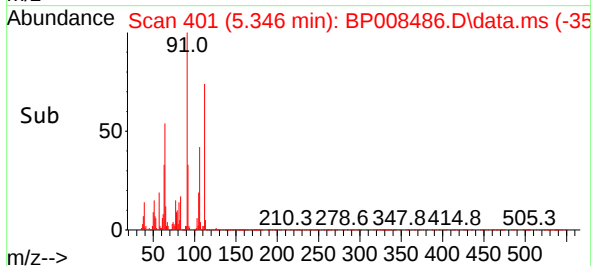
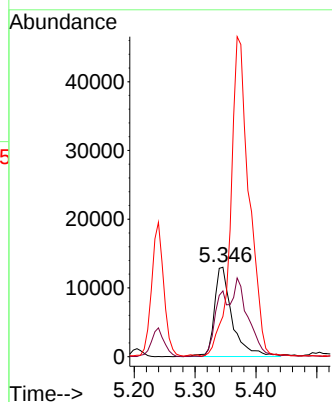
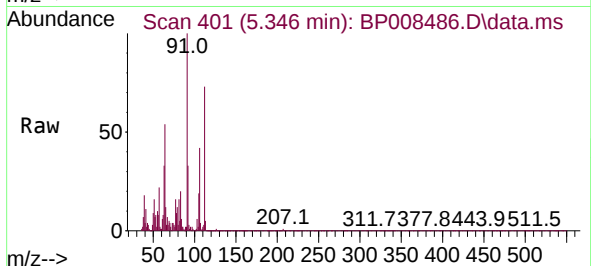




#5  
2-Fluorophenol  
Concen: 6.774 ng  
RT: 5.346 min Scan# 401  
Delta R.T. -0.000 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

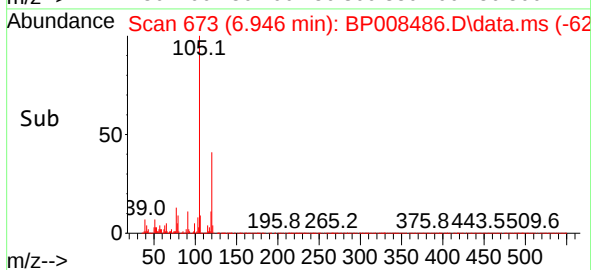
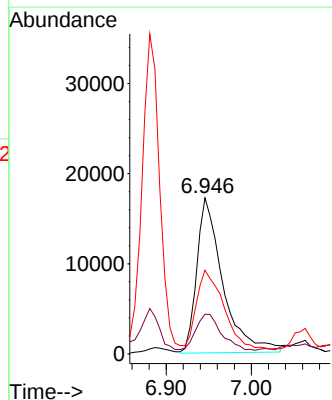
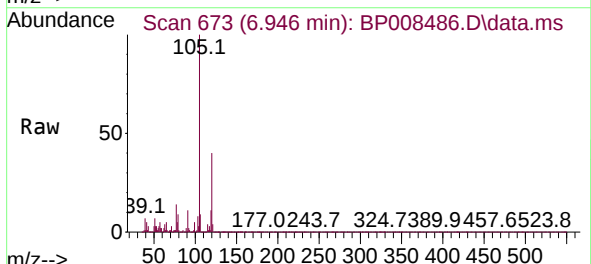
Instrument :  
BNA\_P  
ClientSampleId :  
A2-8-6.5DL

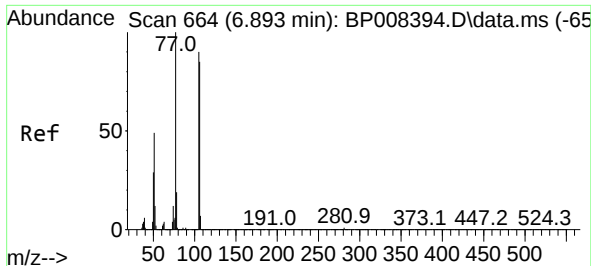
Tgt Ion:112 Resp: 26393  
Ion Ratio Lower Upper  
112 100  
64 73.4 53.4 80.2  
63 45.2 27.8 41.8#



#7  
Phenol-d6  
Concen: 6.972 ng  
RT: 6.946 min Scan# 673  
Delta R.T. 0.006 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

Tgt Ion: 99 Resp: 36487  
Ion Ratio Lower Upper  
99 100  
42 25.5 14.6 22.0#  
71 53.8 31.1 46.7#

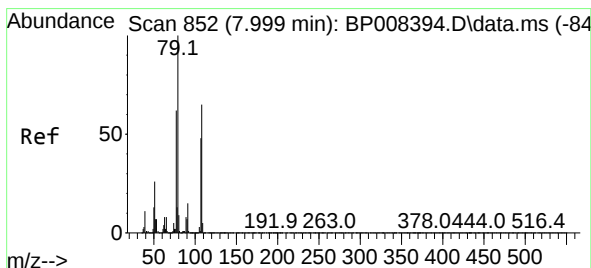
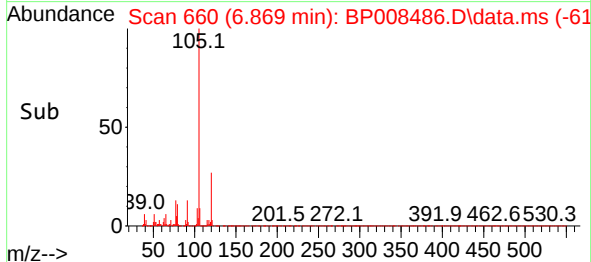
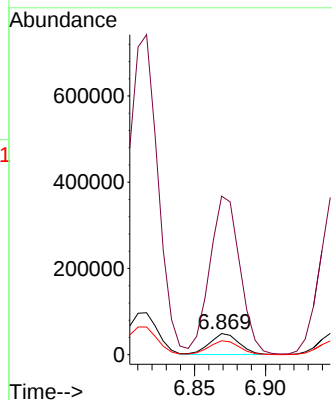
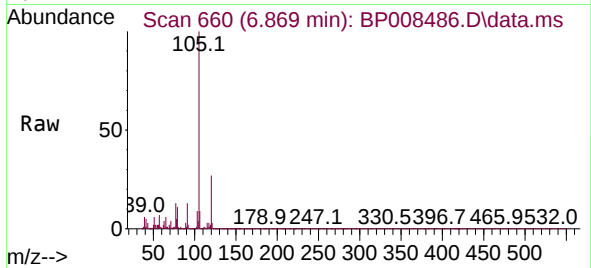




#9  
Benzaldehyde  
Concen: 22.242 ng  
RT: 6.869 min Scan# 61  
Delta R.T. -0.024 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

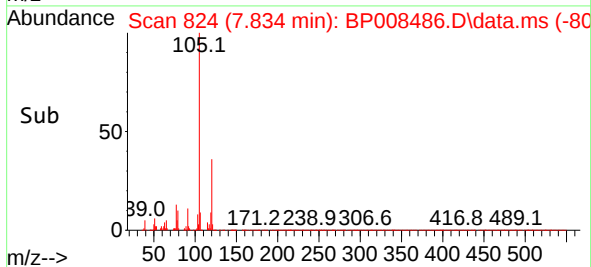
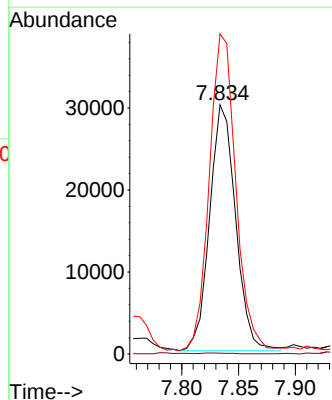
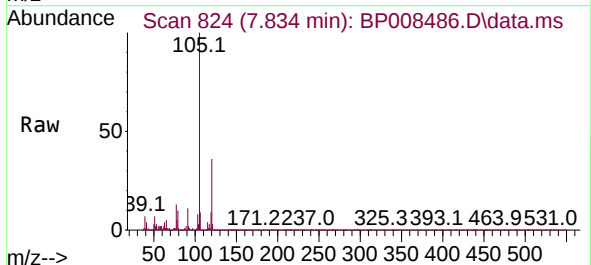
Instrument :  
BNA\_P  
ClientSampleId :  
A2-8-6.5DL

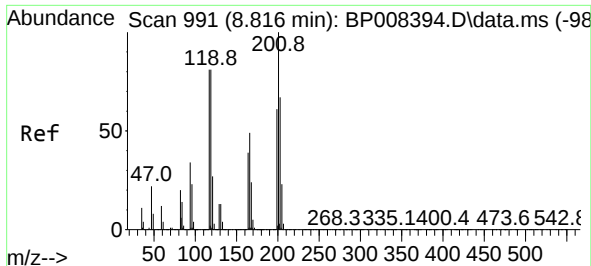
Tgt Ion: 77 Resp: 71020  
Ion Ratio Lower Upper  
77 100  
105 751.5 71.8 111.8#  
106 66.3 67.3 107.3#



#15  
Benzyl Alcohol  
Concen: 11.353 ng  
RT: 7.834 min Scan# 824  
Delta R.T. -0.165 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

Tgt Ion: 79 Resp: 47793  
Ion Ratio Lower Upper  
79 100  
108 0.4 55.5 83.3#  
77 128.5 51.0 76.6#

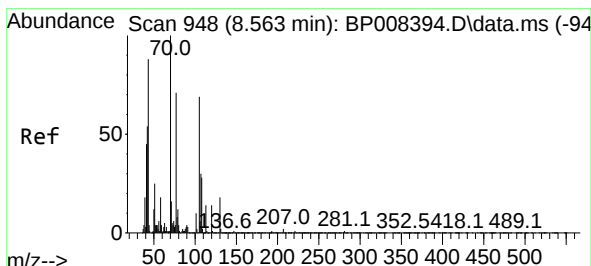
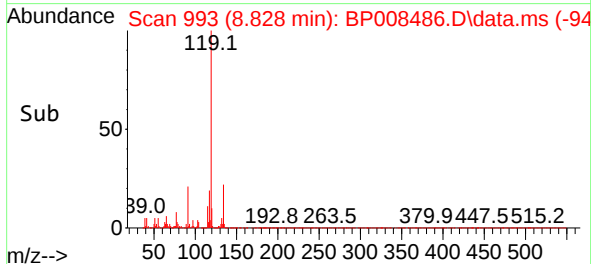
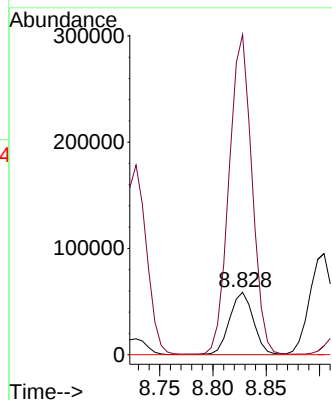
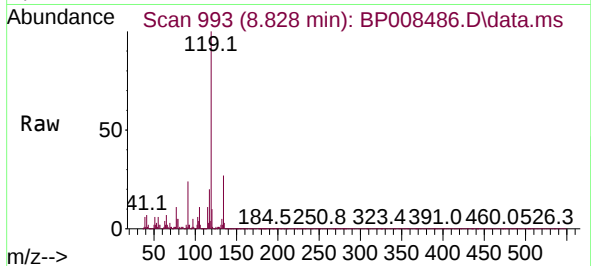




#18  
Hexachloroethane  
Concen: 52.470 ng  
RT: 8.828 min Scan# 991  
Delta R.T. 0.011 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

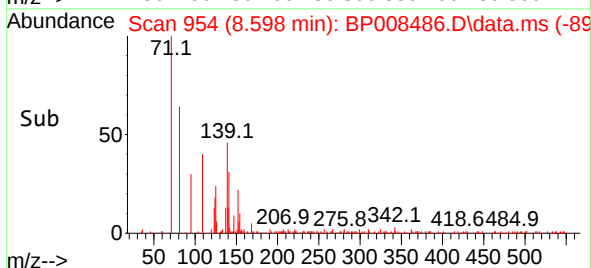
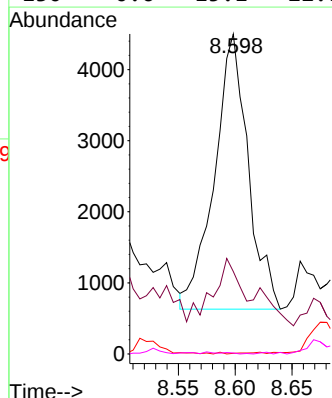
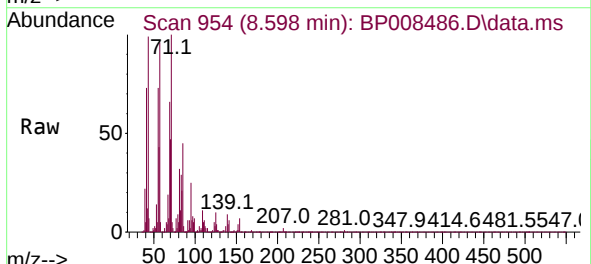
Instrument :  
BNA\_P  
ClientSampleId :  
A2-8-6.5DL

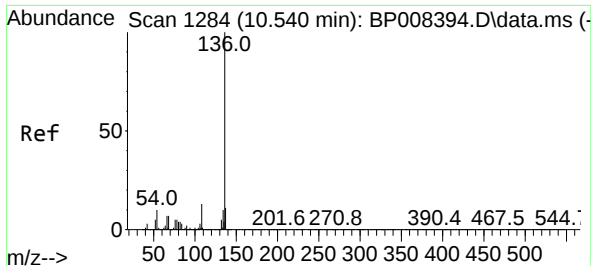
Tgt Ion:117 Resp: 90977  
Ion Ratio Lower Upper  
117 100  
119 512.6 74.7 112.1#  
201 0.0 88.6 132.8#



#19  
n-Nitroso-di-n-propylamine  
Concen: 2.051 ng  
RT: 8.598 min Scan# 954  
Delta R.T. 0.035 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

Tgt Ion: 70 Resp: 7961  
Ion Ratio Lower Upper  
70 100  
42 25.8 45.4 68.2#  
101 0.2 7.6 11.4#  
130 0.6 15.1 22.7#

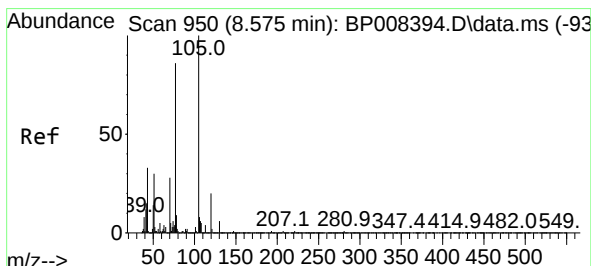
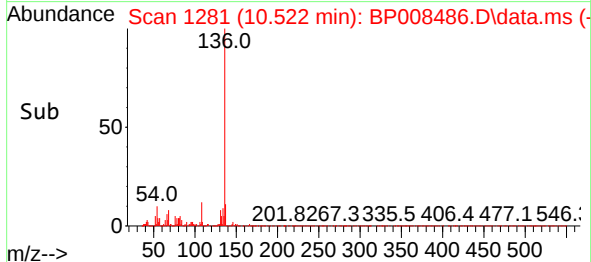
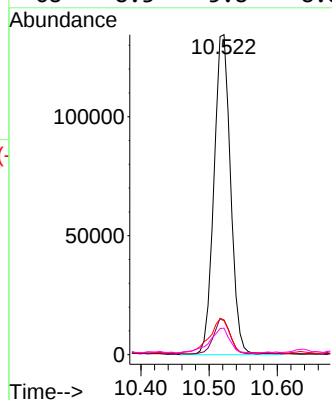
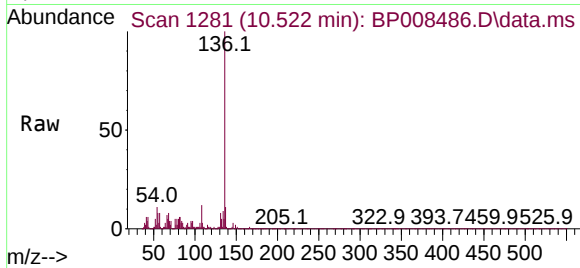




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.522 min Scan# 11  
Delta R.T. -0.018 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

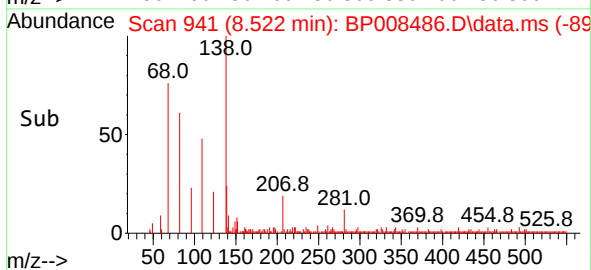
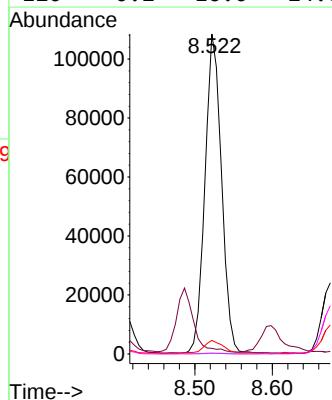
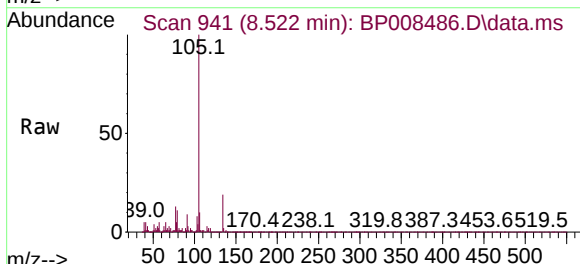
Instrument :  
BNA\_P  
ClientSampleId :  
A2-8-6.5DL

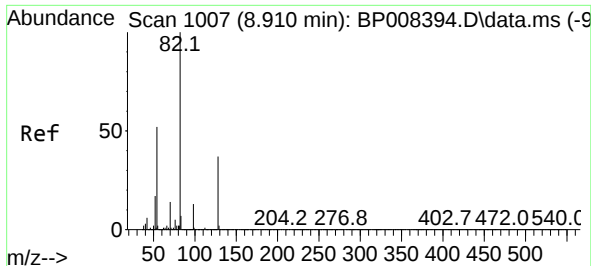
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 228592 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 9.0   | 13.6   |
| 54       | 10.6  | 8.2   | 12.4   |
| 68       | 8.3   | 5.8   | 8.8    |



#22  
Acetophenone  
Concen: 23.917 ng  
RT: 8.522 min Scan# 941  
Delta R.T. -0.053 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 160784 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 71       | 1.7   | 4.0   | 6.0#   |
| 51       | 4.2   | 23.8  | 35.6#  |
| 120      | 0.2   | 16.0  | 24.0#  |

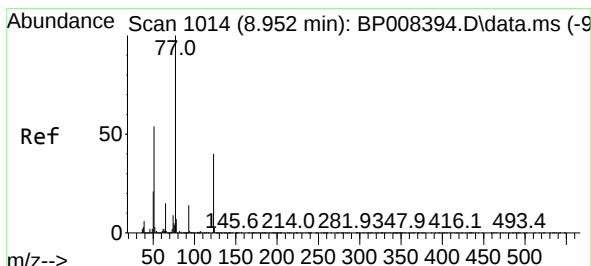
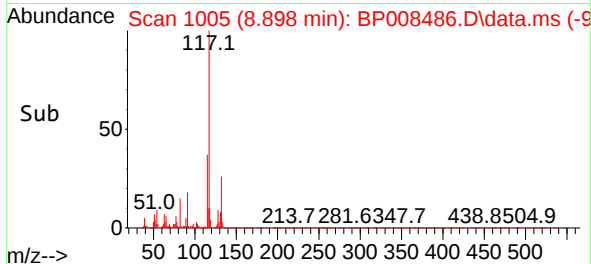
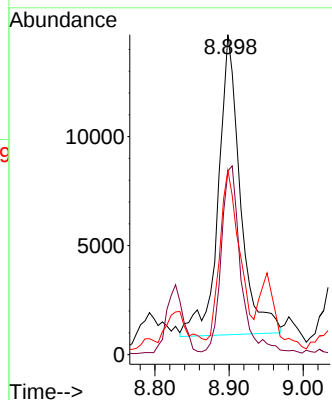
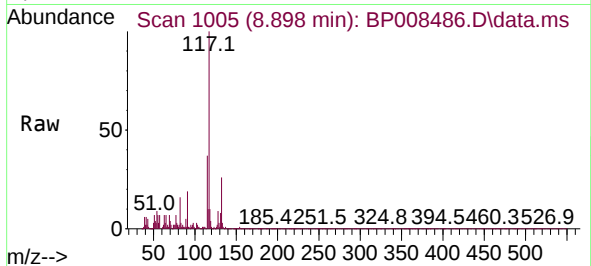




#23  
Nitrobenzene-d5  
Concen: 5.282 ng  
RT: 8.898 min Scan# 1005  
Delta R.T. -0.012 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

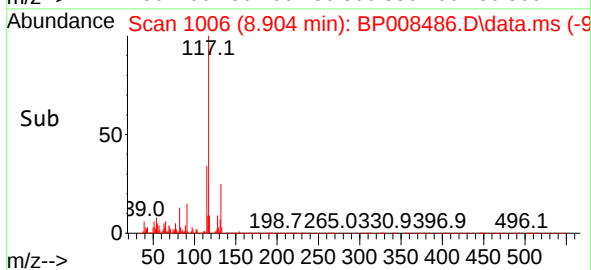
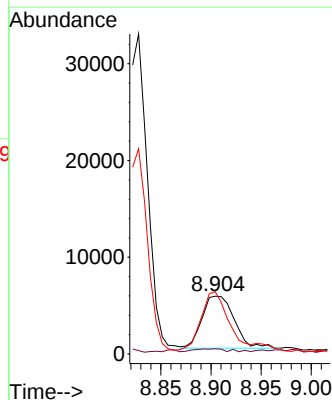
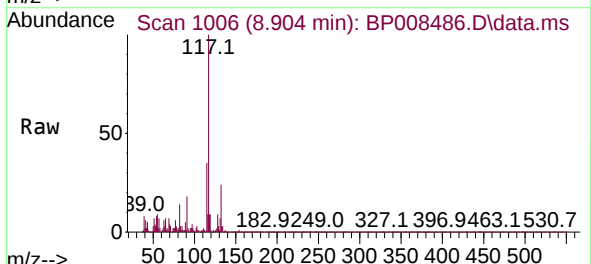
Instrument :  
BNA\_P  
ClientSampleId :  
A2-8-6.5DL

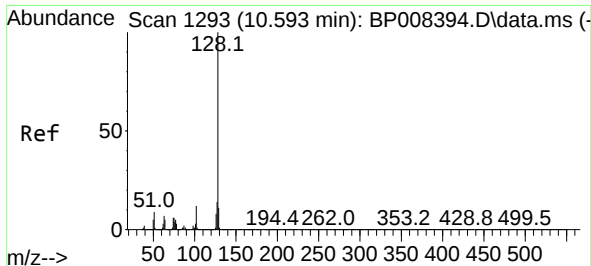
Tgt Ion: 82 Resp: 28499  
Ion Ratio Lower Upper  
82 100  
128 57.4 29.6 44.4#  
54 57.7 42.7 64.1



#24  
Nitrobenzene  
Concen: 2.366 ng  
RT: 8.904 min Scan# 1006  
Delta R.T. -0.047 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

Tgt Ion: 77 Resp: 11980  
Ion Ratio Lower Upper  
77 100  
123 9.0 30.4 45.6#  
65 107.7 11.3 16.9#

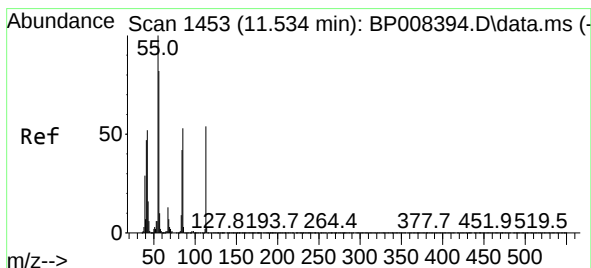
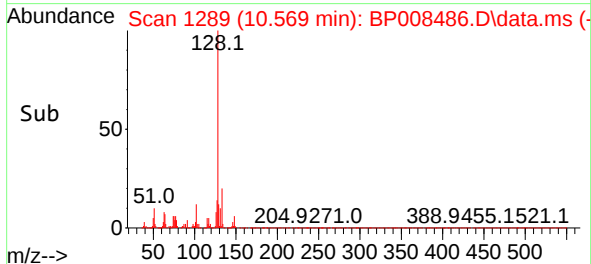
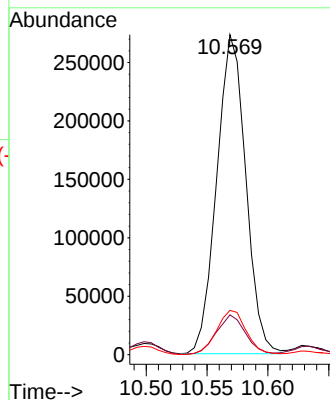
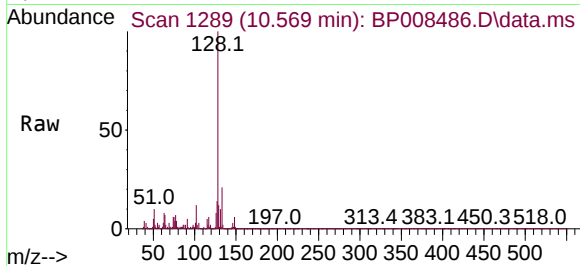




#31  
Naphthalene  
Concen: 37.822 ng  
RT: 10.569 min Scan# 11  
Delta R.T. -0.024 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

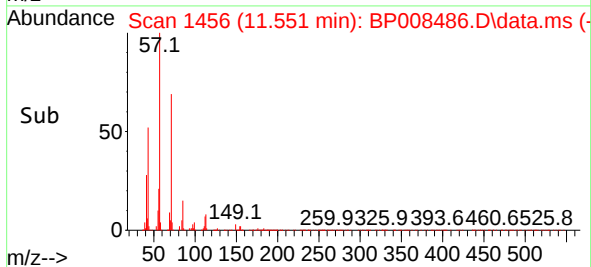
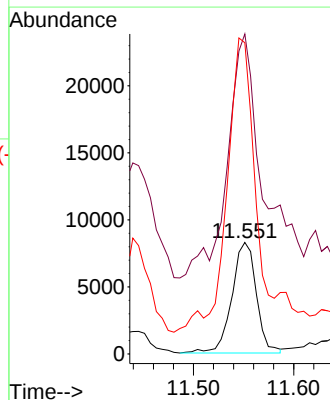
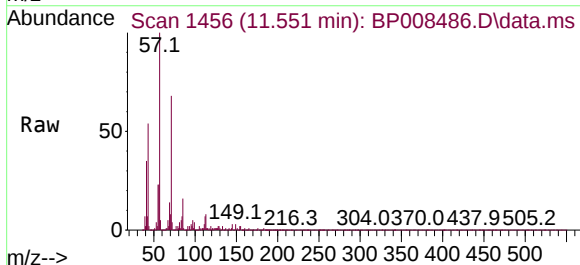
Instrument :  
BNA\_P  
ClientSampleId :  
A2-8-6.5DL

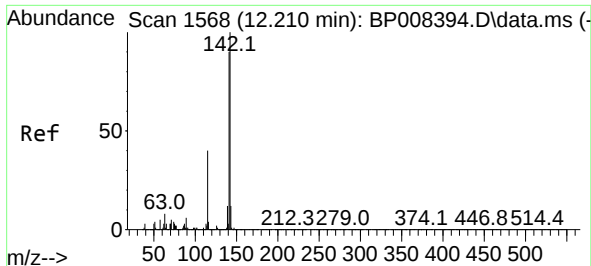
Tgt Ion:128 Resp: 453393  
Ion Ratio Lower Upper  
128 100  
129 12.5 8.5 12.7  
127 13.8 10.9 16.3



#35  
Caprolactam  
Concen: 18.712 ng  
RT: 11.551 min Scan# 1456  
Delta R.T. 0.017 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

Tgt Ion:113 Resp: 13975  
Ion Ratio Lower Upper  
113 100  
55 287.0 174.2 214.2#  
56 279.1 130.3 170.3#

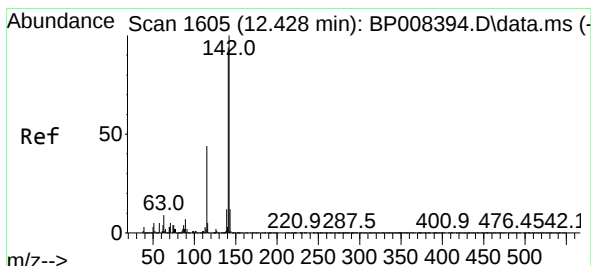
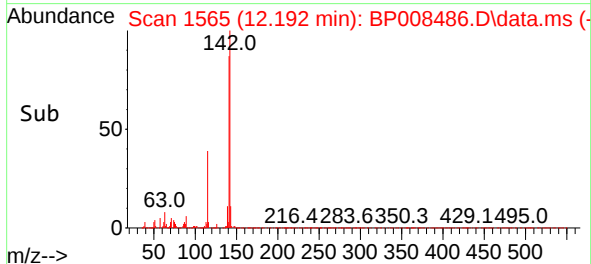
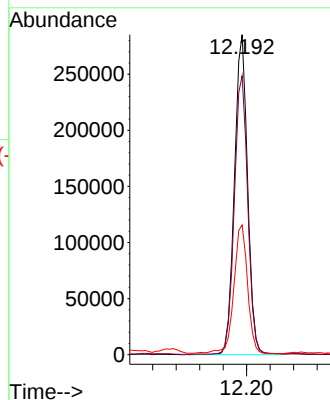
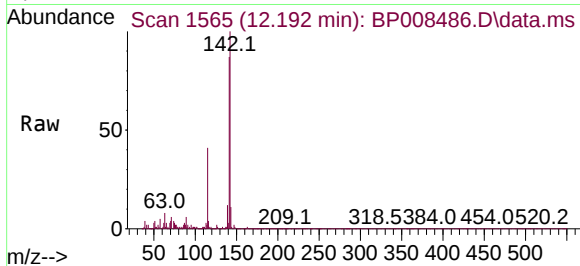




#37  
2-Methylnaphthalene  
Concen: 53.543 ng  
RT: 12.192 min Scan# 11  
Delta R.T. -0.018 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

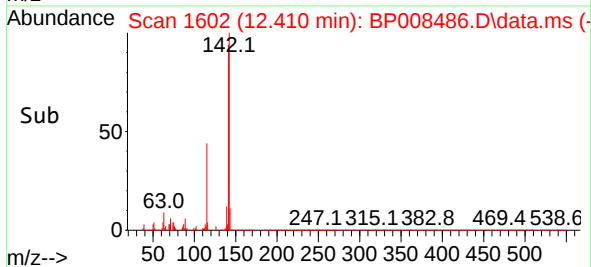
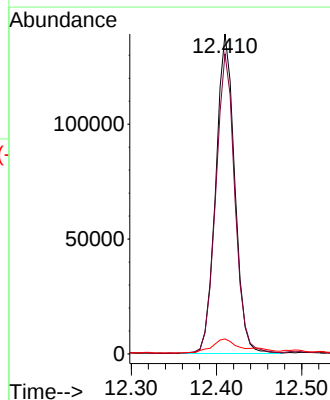
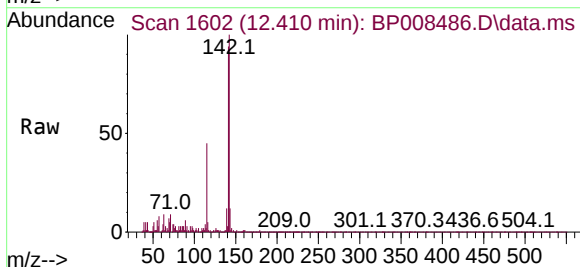
Instrument :  
BNA\_P  
ClientSampleId :  
A2-8-6.5DL

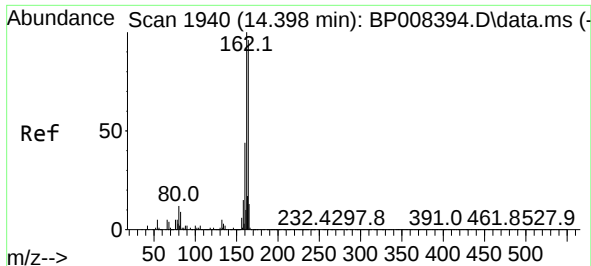
Tgt Ion:142 Resp: 442378  
Ion Ratio Lower Upper  
142 100  
141 87.1 70.7 106.1  
115 40.6 30.9 46.3



#38  
1-Methylnaphthalene  
Concen: 26.683 ng  
RT: 12.410 min Scan# 1602  
Delta R.T. -0.018 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

Tgt Ion:142 Resp: 214632  
Ion Ratio Lower Upper  
142 100  
141 93.8 74.2 111.4  
116 4.7 3.4 5.2

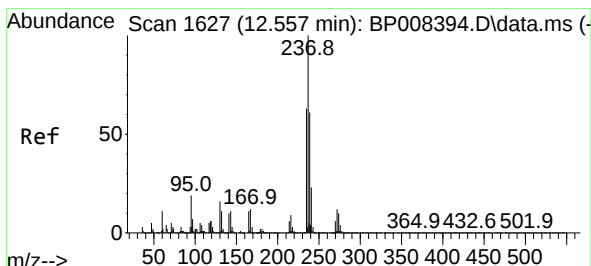
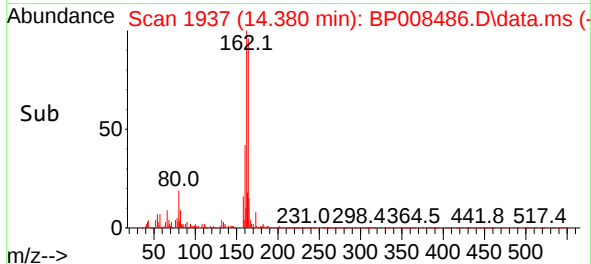
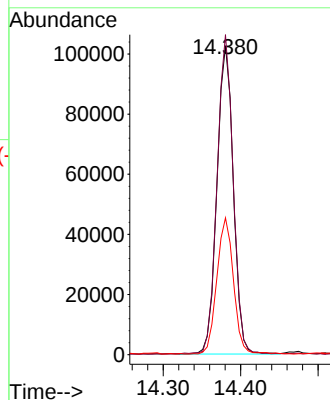
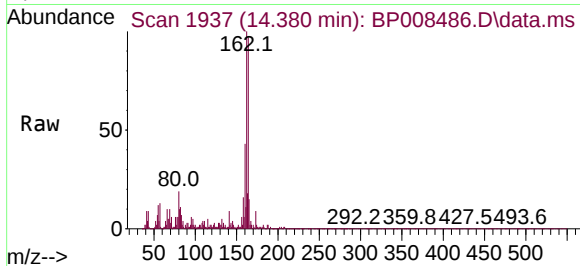




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.380 min Scan# 1940  
Delta R.T. -0.018 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

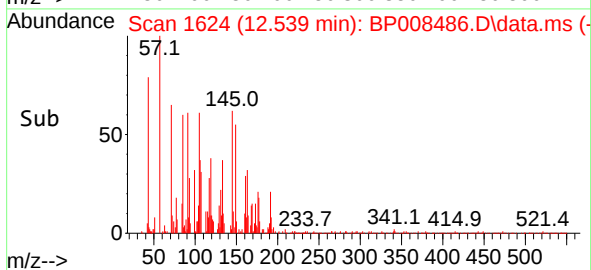
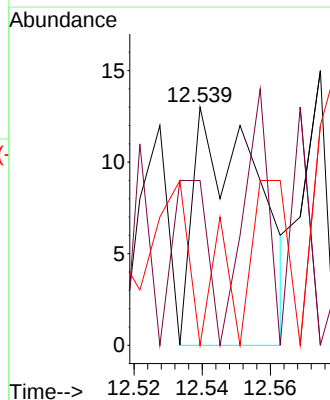
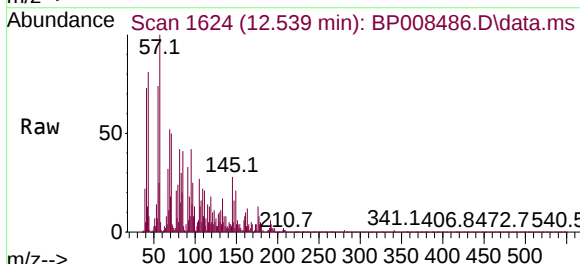
Instrument :  
BNA\_P  
ClientSampleId :  
A2-8-6.5DL

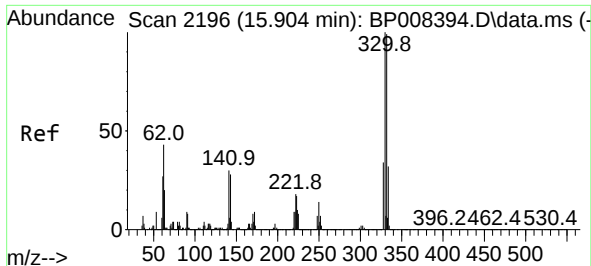
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:164 | Resp: | 150691     |
| Ion Ratio   | Lower | Upper      |
| 164         | 100   |            |
| 162         | 103.6 | 81.9 122.9 |
| 160         | 44.3  | 35.4 53.0  |



#41  
Hexachlorocyclopentadiene  
Concen: 8.661 ng  
RT: 12.539 min Scan# 1624  
Delta R.T. -0.018 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:237 | Resp: | 17        |
| Ion Ratio   | Lower | Upper     |
| 237         | 100   |           |
| 235         | 69.2  | 42.3 82.3 |
| 272         | 0.0   | 0.0 32.2  |

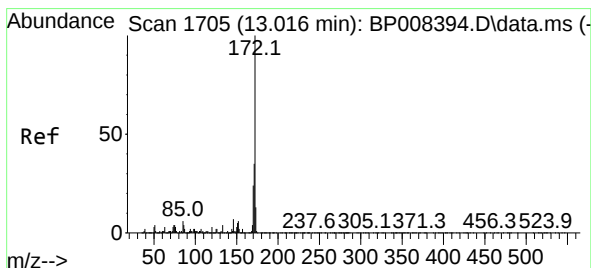
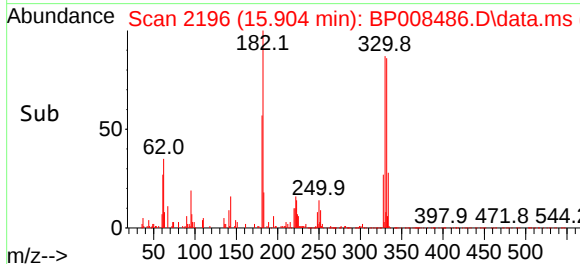
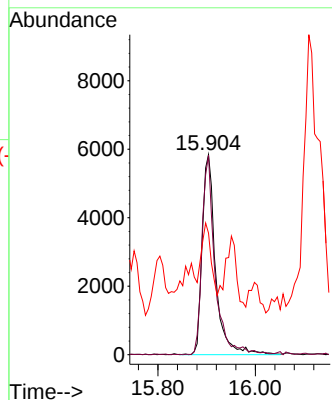
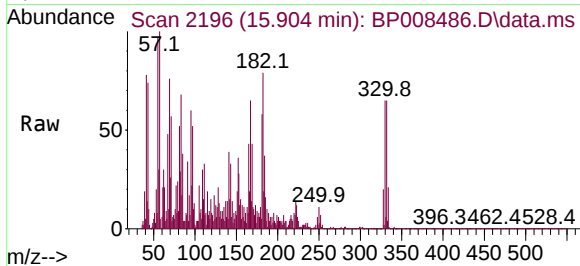




#42  
2,4,6-Tribromophenol  
Concen: 5.034 ng  
RT: 15.904 min Scan# 2196  
Delta R.T. -0.000 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

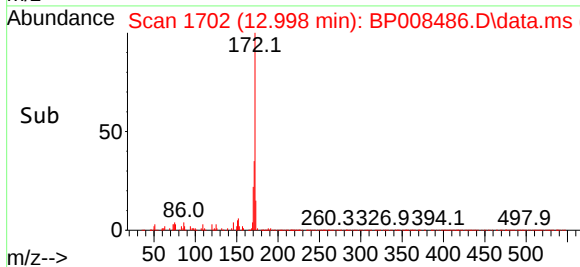
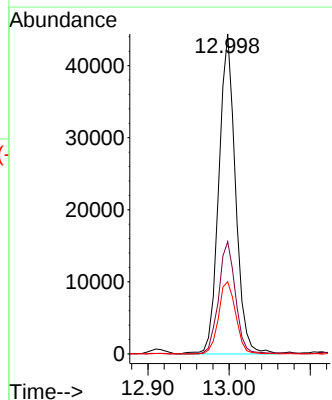
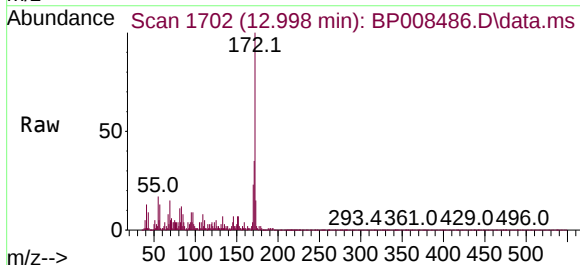
Instrument :  
BNA\_P  
ClientSampleId :  
A2-8-6.5DL

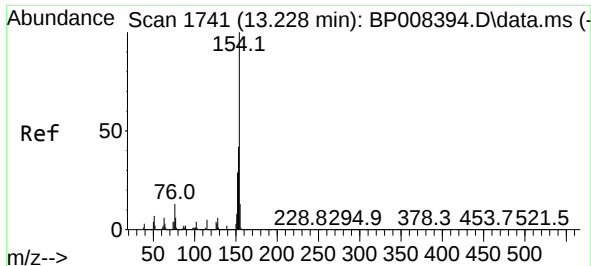
Tgt Ion:330 Resp: 11148  
Ion Ratio Lower Upper  
330 100  
332 97.3 77.0 115.4  
141 29.3 28.4 42.6



#45  
2-Fluorobiphenyl  
Concen: 5.352 ng  
RT: 12.998 min Scan# 1702  
Delta R.T. -0.018 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

Tgt Ion:172 Resp: 63447  
Ion Ratio Lower Upper  
172 100  
171 35.1 28.0 42.0  
170 22.6 18.9 28.3

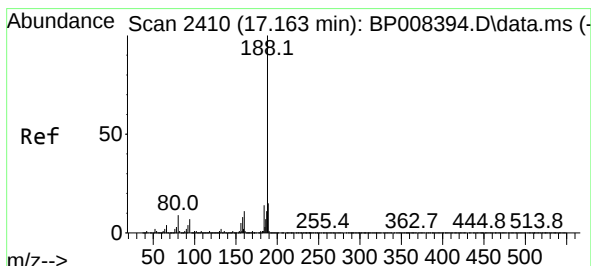
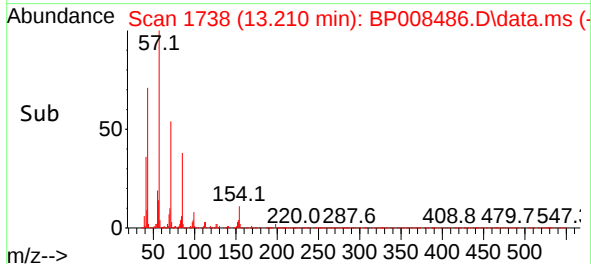
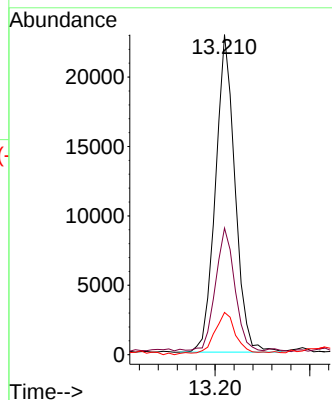
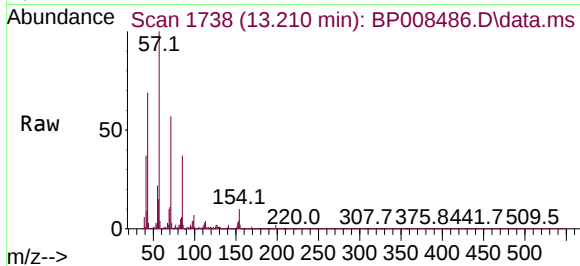




#46  
1,1'-Biphenyl  
Concen: 2.814 ng  
RT: 13.210 min Scan# 11  
Delta R.T. -0.018 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

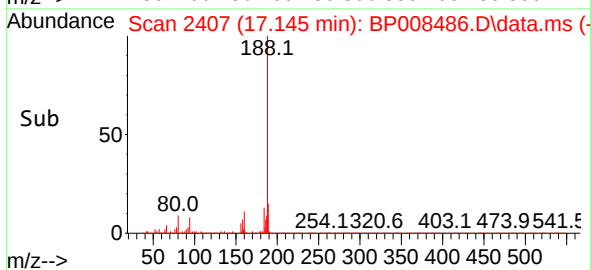
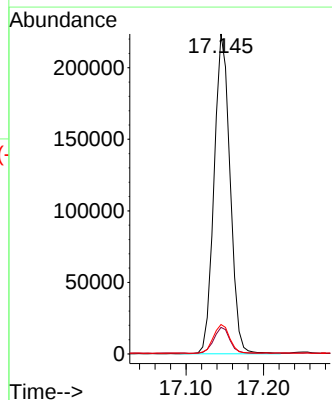
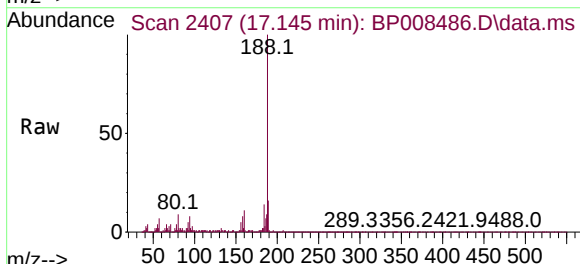
Instrument :  
BNA\_P  
ClientSampleId :  
A2-8-6.5DL

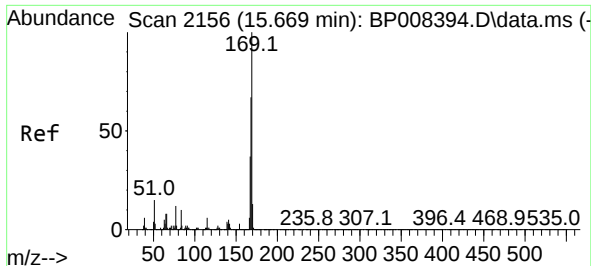
Tgt Ion:154 Resp: 32766  
Ion Ratio Lower Upper  
154 100  
153 39.5 19.7 59.7  
76 13.2 0.0 33.7



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.145 min Scan# 2407  
Delta R.T. -0.018 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

Tgt Ion:188 Resp: 320921  
Ion Ratio Lower Upper  
188 100  
94 8.3 7.2 10.8  
80 9.2 8.2 12.4

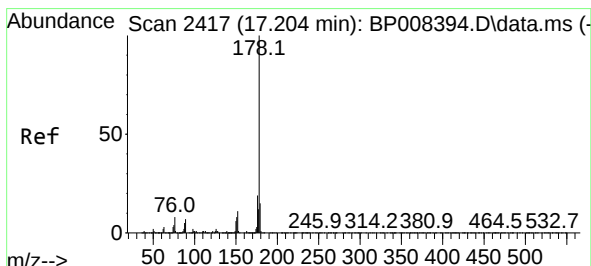
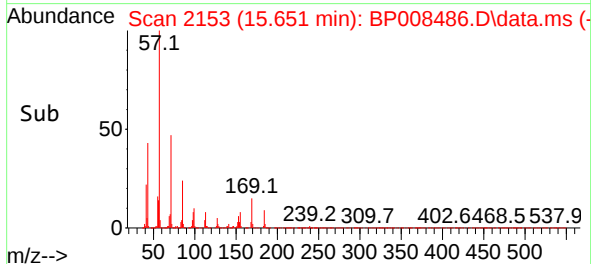
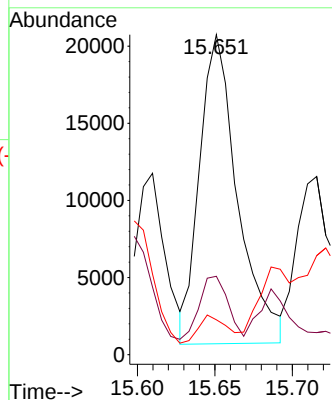
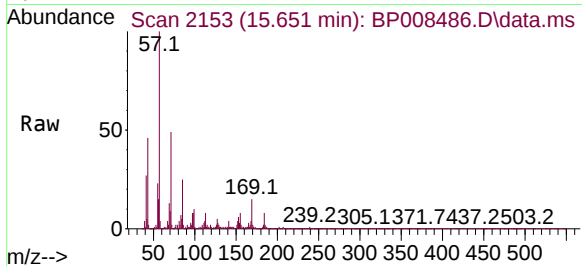




#66  
n-Nitrosodiphenylamine  
Concen: 3.381 ng  
RT: 15.651 min Scan# 2153  
Delta R.T. -0.018 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

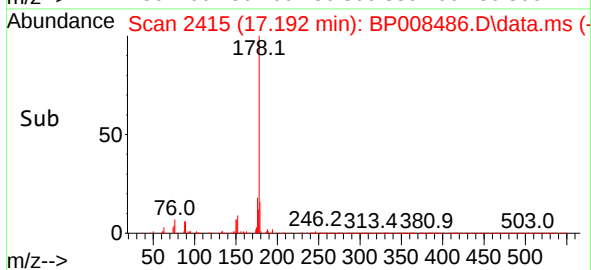
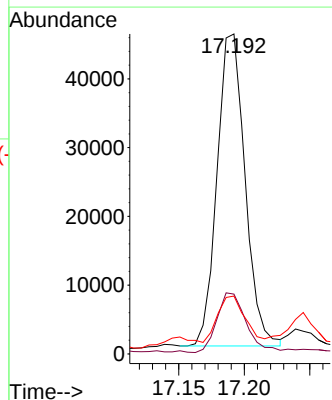
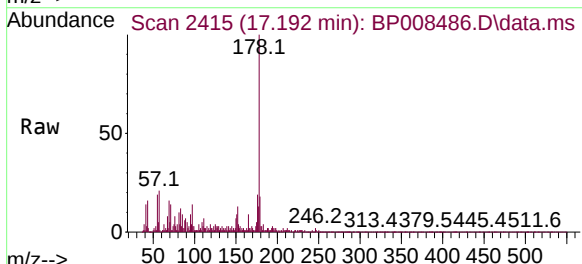
Instrument :  
BNA\_P  
ClientSampleId :  
A2-8-6.5DL

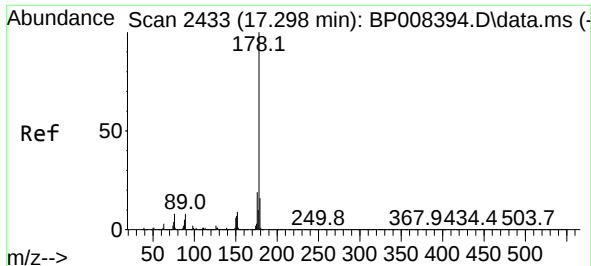
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 169   | Resp: | 34165 |
| Ion Ratio | Lower | Upper |       |
| 169       | 100   |       |       |
| 168       | 24.5  | 53.5  | 80.3# |
| 167       | 10.9  | 29.3  | 43.9# |



#71  
Phenanthrene  
Concen: 3.877 ng  
RT: 17.192 min Scan# 2415  
Delta R.T. -0.012 min  
Lab File: BP008486.D  
Acq: 17 Dec 2021 23:32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 67397 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.7  | 15.3  | 22.9  |
| 179       | 18.1  | 12.5  | 18.7  |

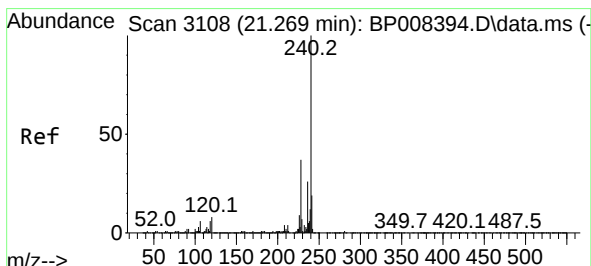
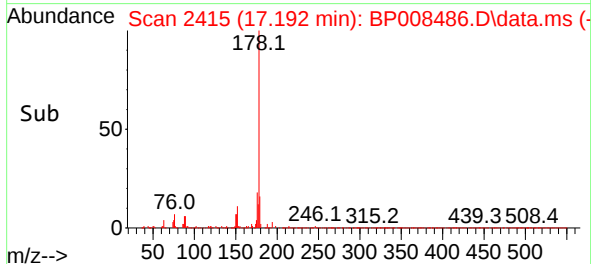
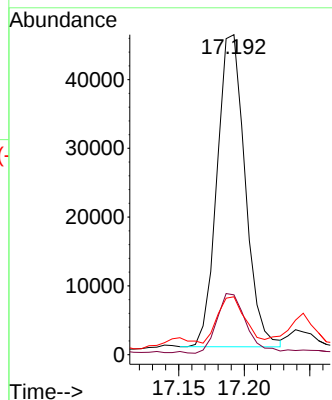
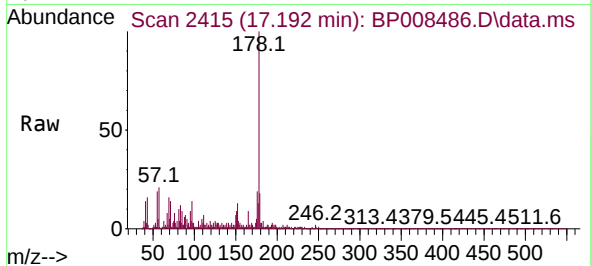




#72  
 Anthracene  
 Concen: 3.932 ng  
 RT: 17.192 min Scan# 2433  
 Delta R.T. -0.106 min  
 Lab File: BP008486.D  
 Acq: 17 Dec 2021 23:32

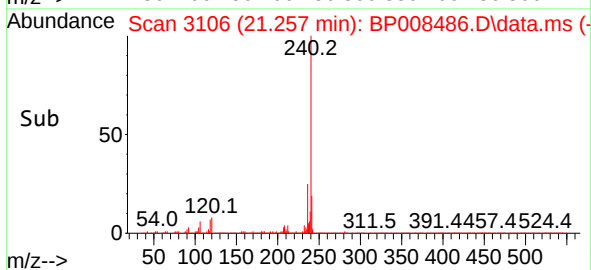
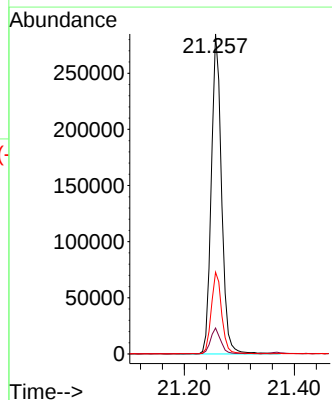
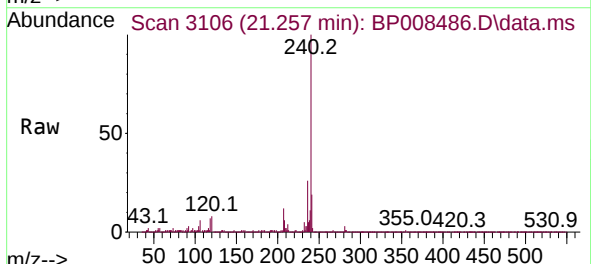
Instrument :  
 BNA\_P  
 ClientSampleId :  
 A2-8-6.5DL

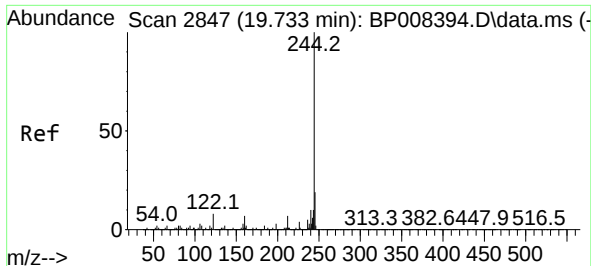
Tgt Ion:178 Resp: 67436  
 Ion Ratio Lower Upper  
 178 100  
 176 18.7 15.1 22.7  
 179 18.1 12.3 18.5



#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.257 min Scan# 3106  
 Delta R.T. -0.012 min  
 Lab File: BP008486.D  
 Acq: 17 Dec 2021 23:32

Tgt Ion:240 Resp: 368222  
 Ion Ratio Lower Upper  
 240 100  
 120 8.1 7.3 10.9  
 236 25.6 21.4 32.2

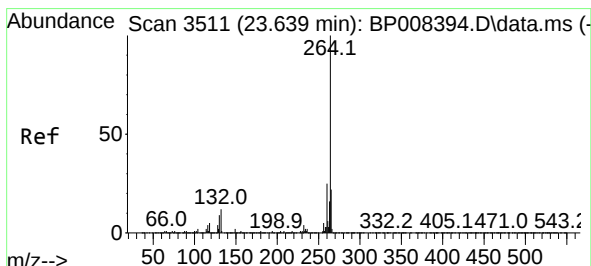
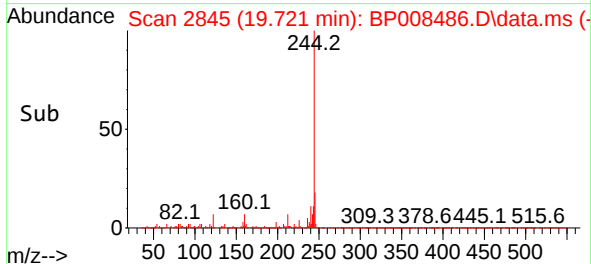
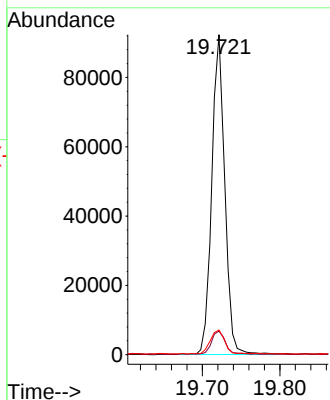
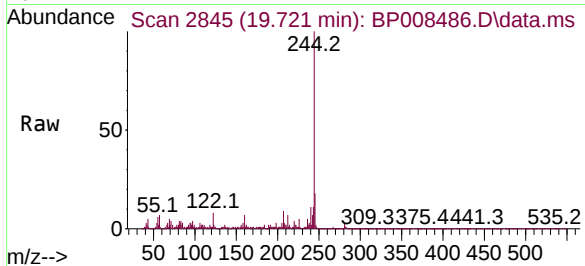




#79  
 Terphenyl-d14  
 Concen: 5.099 ng  
 RT: 19.721 min Scan# 21  
 Delta R.T. -0.012 min  
 Lab File: BP008486.D  
 Acq: 17 Dec 2021 23:32

Instrument :  
 BNA\_P  
 ClientSampleId :  
 A2-8-6.5DL

|             |       |         |
|-------------|-------|---------|
| Tgt Ion:244 | Resp: | 107890  |
| Ion Ratio   | Lower | Upper   |
| 244         | 100   |         |
| 212         | 7.4   | 6.0 9.0 |
| 122         | 7.7   | 6.6 9.8 |



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 23.627 min Scan# 3509  
 Delta R.T. -0.012 min  
 Lab File: BP008486.D  
 Acq: 17 Dec 2021 23:32

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:264 | Resp: | 404368    |
| Ion Ratio   | Lower | Upper     |
| 264         | 100   |           |
| 260         | 24.0  | 19.4 29.2 |
| 265         | 21.7  | 17.6 26.4 |

