

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP100520\  
 Data File : BP003501.D  
 Acq On : 05 Oct 2020 21:19  
 Operator : CG/JU  
 Sample : L4260-05  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 PAV-B21-100220-10-18.5

Quant Time: Oct 06 04:20:20 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\8270-BP091520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 05 14:33:14 2020  
 Response via : Initial Calibration

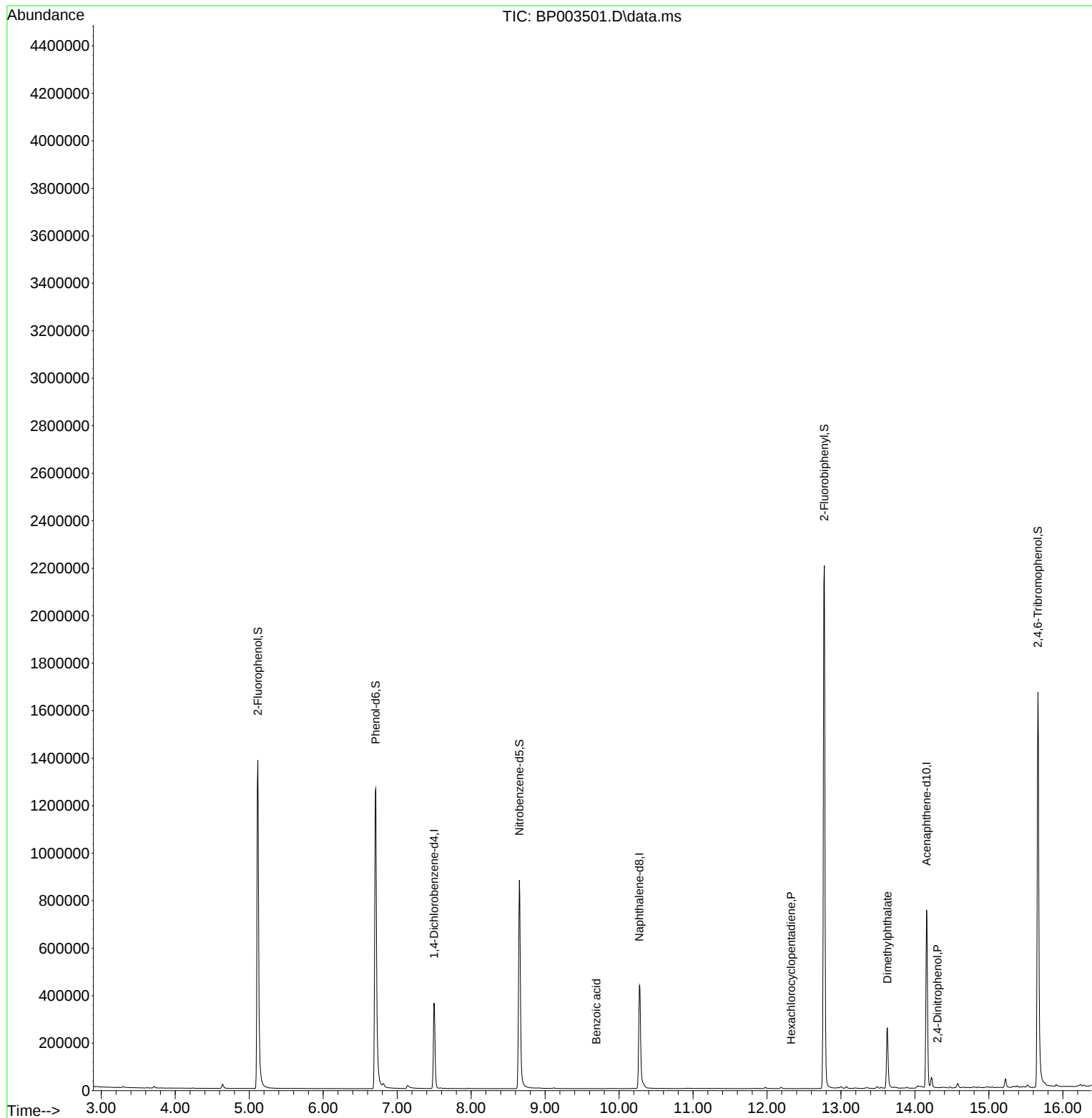
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.499  | 152  | 98138    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.275 | 136  | 400386   | 20.00  | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.157 | 164  | 253665   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 16.916 | 188  | 553941   | 20.00  | ng    | # 0.00   |
| 76) Chrysene-d12              | 21.022 | 240  | 594888   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12              | 23.198 | 264  | 537633   | 20.00  | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.117  | 112  | 697982   | 124.19 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.711  | 99   | 895620   | 119.55 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.652  | 82   | 587122   | 86.15  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.663 | 330  | 344405   | 89.02  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 12.775 | 172  | 1164116  | 67.12  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.504 | 244  | 1595988  | 55.90  | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 32) Benzoic acid              | 9.693  | 122  | 26       | 9.16   | ng    | # 1      |
| 41) Hexachlorocyclopentadiene | 12.328 | 237  | 11       | 6.84   | ng    | 85       |
| 50) Dimethylphthalate         | 13.628 | 163  | 187077   | 9.24   | ng    | 100      |
| 54) 2,4-Dinitrophenol         | 14.304 | 184  | 22       | 7.26   | ng    | # 1      |
| 70) Pentachlorophenol         | 16.598 | 266  | 14       | 6.77   | ng    | # 64     |
| 71) Phenanthrene              | 16.957 | 178  | 214696   | 7.12   | ng    | 98       |
| 75) Fluoranthene              | 18.951 | 202  | 301440   | 7.95   | ng    | 98       |
| 78) Pyrene                    | 19.298 | 202  | 276376   | 7.45   | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.010 | 228  | 133352   | 3.47   | ng    | 97       |
| 83) Chrysene                  | 21.063 | 228  | 109687   | 2.97   | ng    | 97       |
| 88) Benzo(b)fluoranthene      | 22.551 | 252  | 130884   | 3.86   | ng    | # 96     |
| 89) Benzo(k)fluoranthene      | 22.551 | 252  | 130767   | 4.02   | ng    | # 97     |
| 90) Benzo(a)pyrene            | 23.104 | 252  | 102425   | 3.20   | ng    | # 95     |
| -----                         |        |      |          |        |       |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP100520\  
Data File : BP003501.D  
Acq On : 05 Oct 2020 21:19  
Operator : CG/JU  
Sample : L4260-05  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
PAV-B21-100220-10-18.5

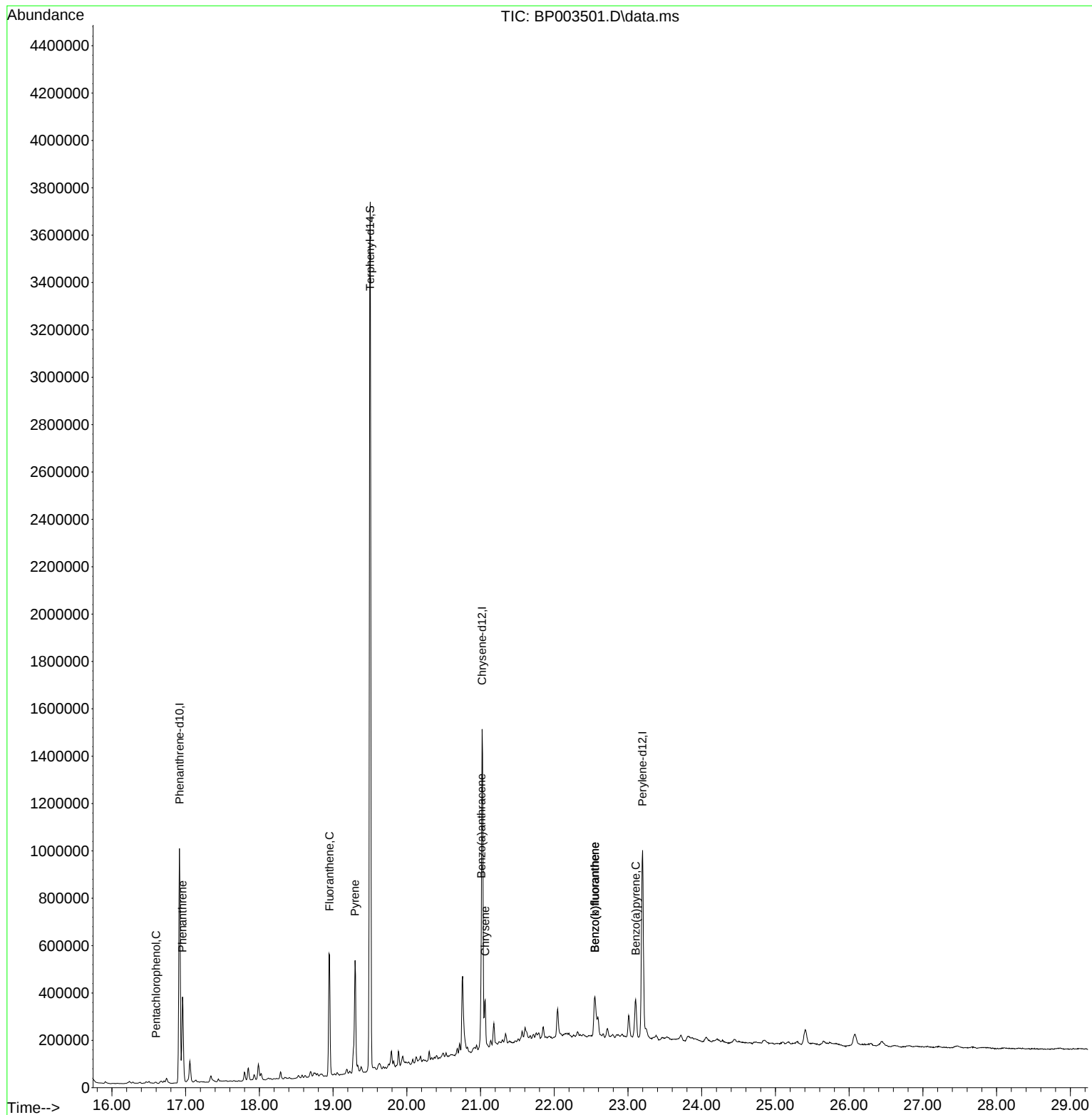
Quant Time: Oct 06 04:20:20 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\8270-BP091520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 05 14:33:14 2020  
Response via : Initial Calibration

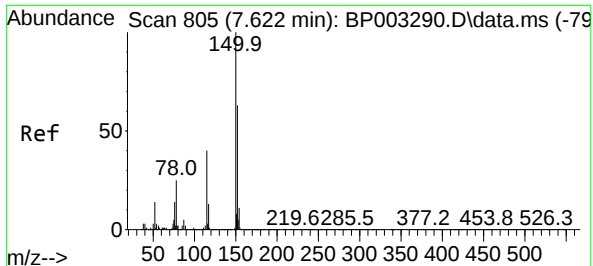


Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP100520\  
Data File : BP003501.D  
Acq On : 05 Oct 2020 21:19  
Operator : CG/JU  
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Instrument :  
BNA\_P  
ClientSampleId :  
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Quant Time: Oct 06 04:20:20 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\8270-BP091520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 05 14:33:14 2020  
Response via : Initial Calibration

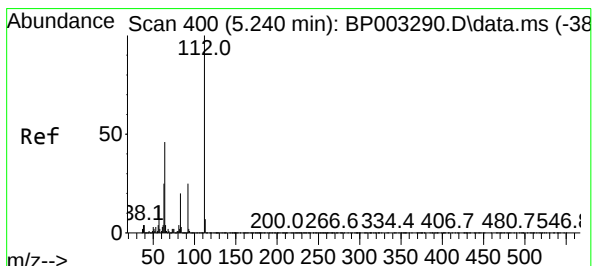
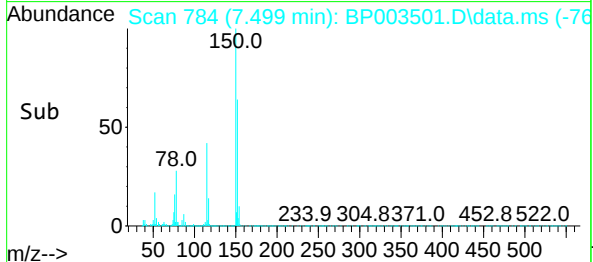
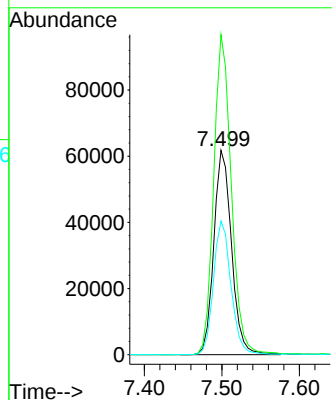
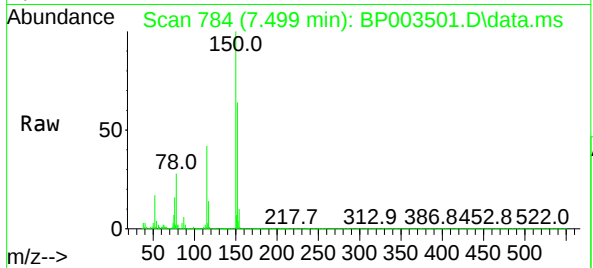




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.499 min Scan# 784  
Delta R.T. 0.001 min  
Lab File: BP003501.D  
Acq: 05 Oct 2020 21:19

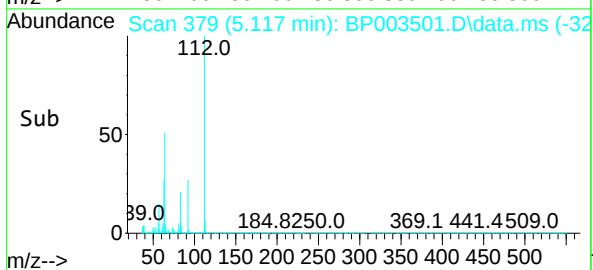
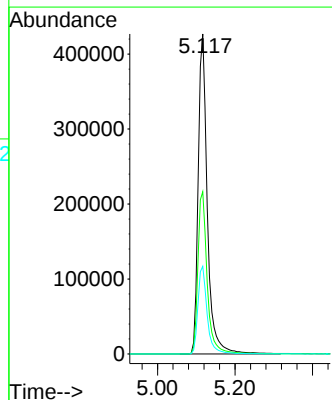
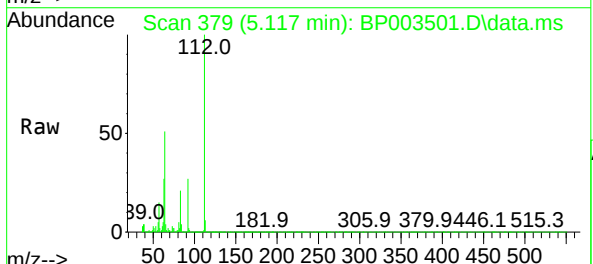
Instrument :  
BNA\_P  
ClientSampleId :  
PAV-B21-100220-10-18.5

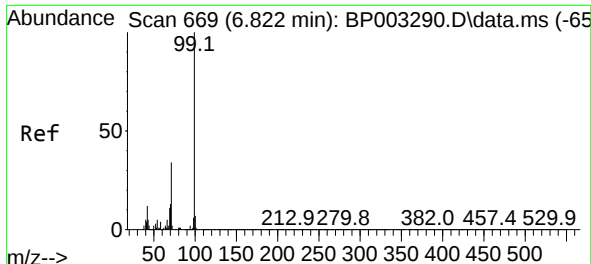
Tgt Ion:152 Resp: 98138  
Ion Ratio Lower Upper  
152 100  
150 156.6 123.8 185.6  
115 65.4 43.8 65.6



#5  
2-Fluorophenol  
Concen: 124.19 ng  
RT: 5.117 min Scan# 379  
Delta R.T. 0.006 min  
Lab File: BP003501.D  
Acq: 05 Oct 2020 21:19

Tgt Ion:112 Resp: 697982  
Ion Ratio Lower Upper  
112 100  
64 50.7 32.8 49.2#  
63 27.4 17.0 25.4#

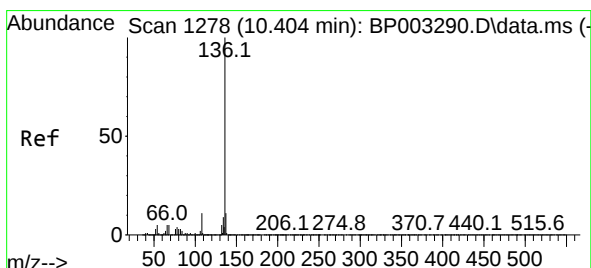
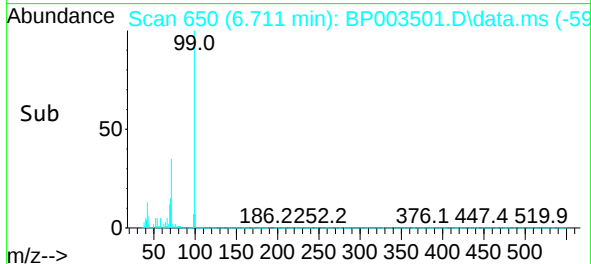
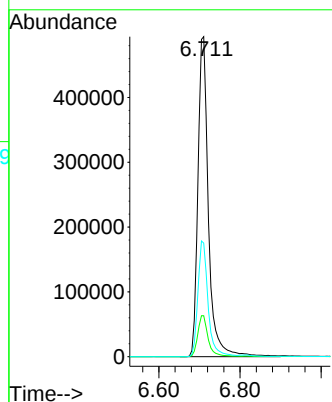
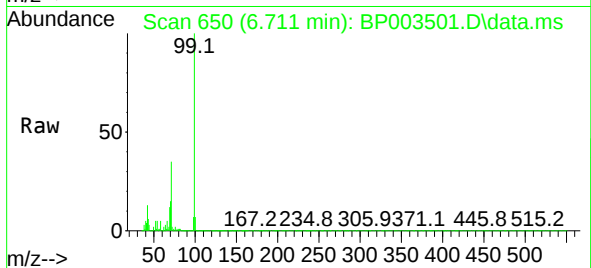




#7  
Phenol-d6  
Concen: 119.55 ng  
RT: 6.711 min Scan# 650  
Delta R.T. 0.006 min  
Lab File: BP003501.D  
Acq: 05 Oct 2020 21:19

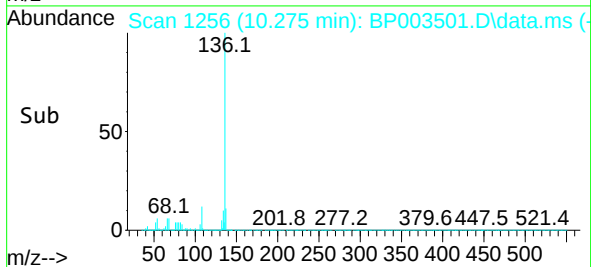
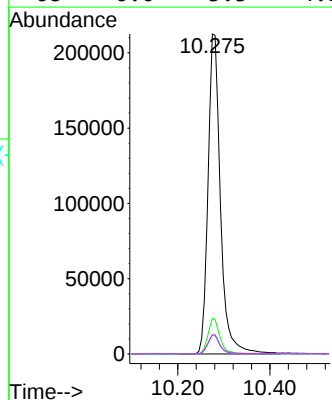
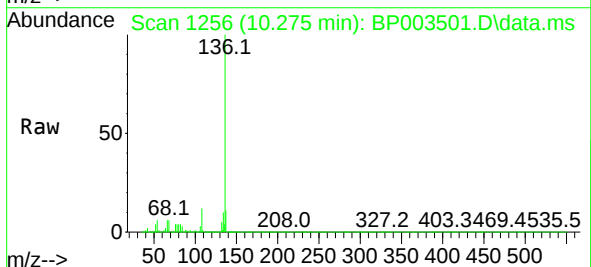
Instrument :  
BNA\_P  
ClientSampleId :  
PAV-B21-100220-10-18.5

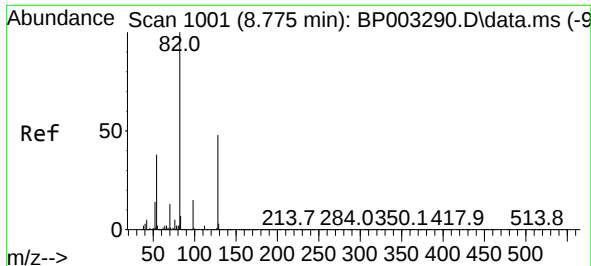
Tgt Ion: 99 Resp: 895620  
Ion Ratio Lower Upper  
99 100  
42 12.8 8.6 13.0  
71 35.5 23.4 35.2#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.275 min Scan# 1256  
Delta R.T. 0.000 min  
Lab File: BP003501.D  
Acq: 05 Oct 2020 21:19

Tgt Ion:136 Resp: 400386  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.6 13.0  
54 5.8 3.6 5.4#  
68 6.0 3.3 4.9#

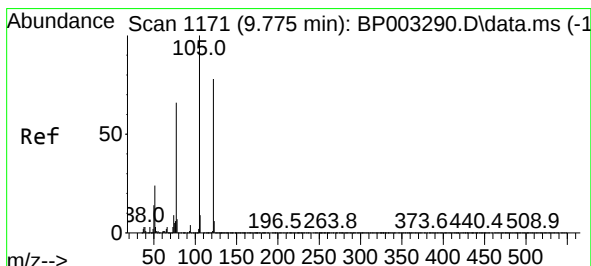
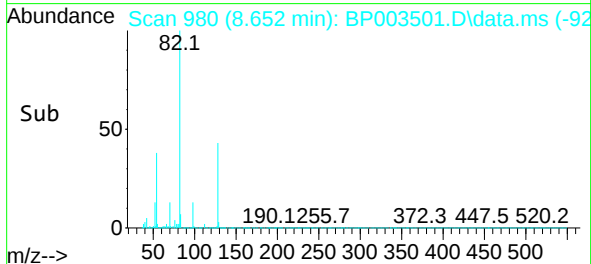
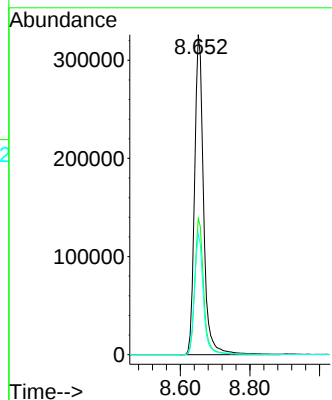
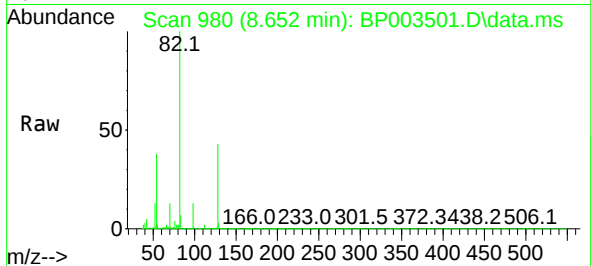




#23  
Nitrobenzene-d5  
Concen: 86.15 ng  
RT: 8.652 min Scan# 980  
Delta R.T. 0.000 min  
Lab File: BP003501.D  
Acq: 05 Oct 2020 21:19

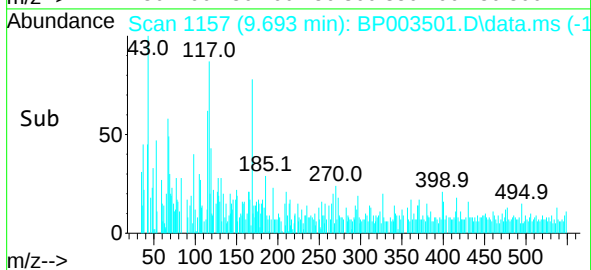
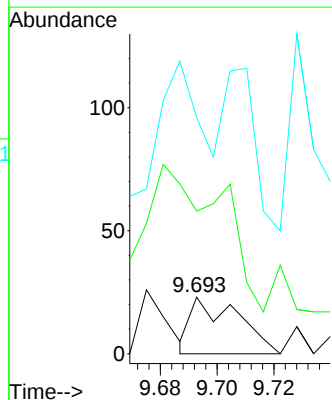
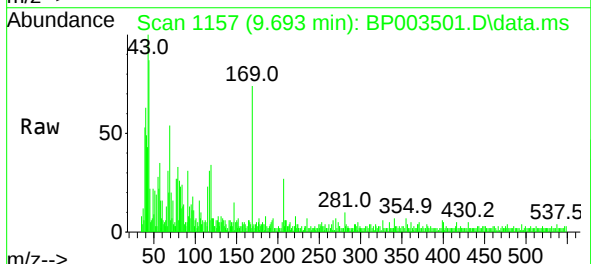
Instrument :  
BNA\_P  
ClientSampleId :  
PAV-B21-100220-10-18.5

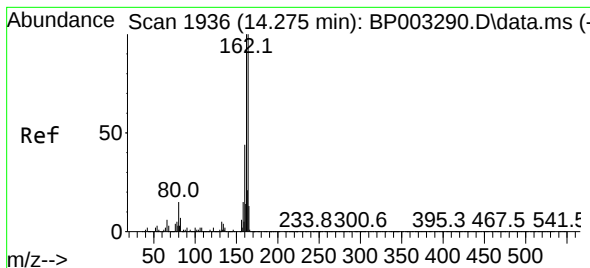
Tgt Ion: 82 Resp: 587122  
Ion Ratio Lower Upper  
82 100  
128 42.5 45.6 68.4#  
54 37.8 30.1 45.1



#32  
Benzoic acid  
Concen: 9.16 ng  
RT: 9.693 min Scan# 1157  
Delta R.T. 0.000 min  
Lab File: BP003501.D  
Acq: 05 Oct 2020 21:19

Tgt Ion: 122 Resp: 26  
Ion Ratio Lower Upper  
122 100  
105 252.2 94.1 134.1#  
77 417.4 50.1 90.1#





#39

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.157 min Scan# 1916

Delta R.T. 0.000 min

Lab File: BP003501.D

Acq: 05 Oct 2020 21:19

Instrument :

BNA\_P

ClientSampleId :

PAV-B21-100220-10-18.5

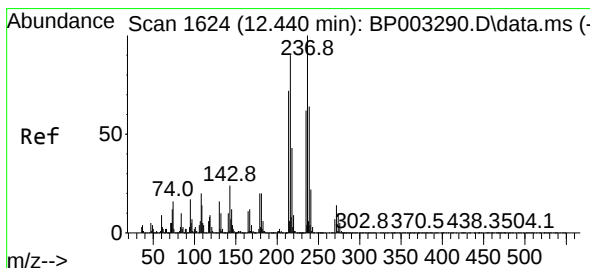
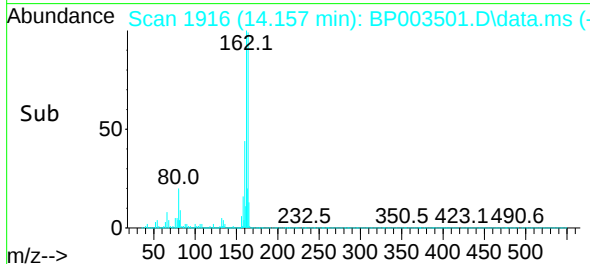
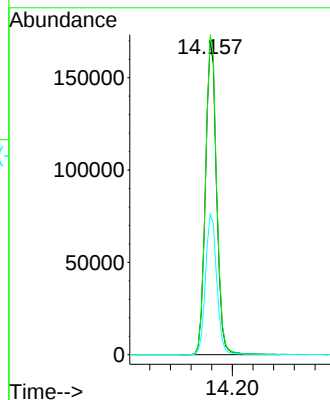
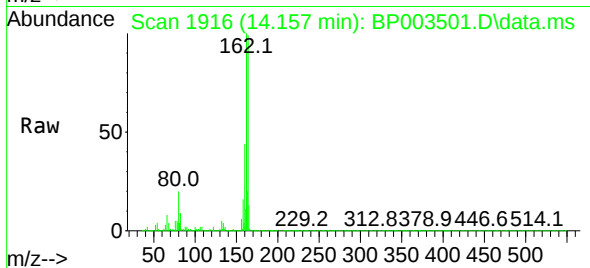
Tgt Ion:164 Resp: 253665

Ion Ratio Lower Upper

164 100

162 101.5 79.4 119.2

160 44.7 36.1 54.1



#41

Hexachlorocyclopentadiene

Concen: 6.84 ng

RT: 12.328 min Scan# 1605

Delta R.T. 0.012 min

Lab File: BP003501.D

Acq: 05 Oct 2020 21:19

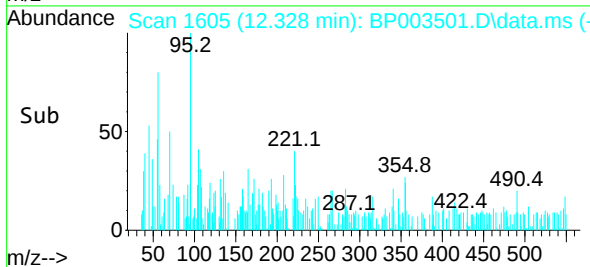
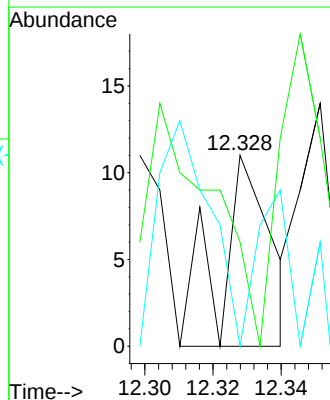
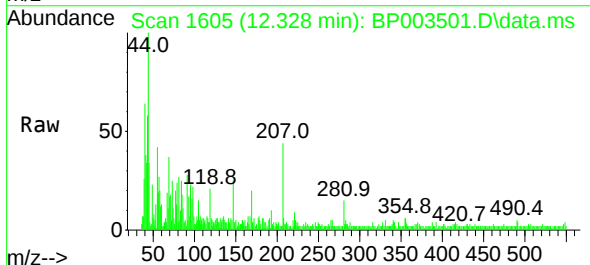
Tgt Ion:237 Resp: 11

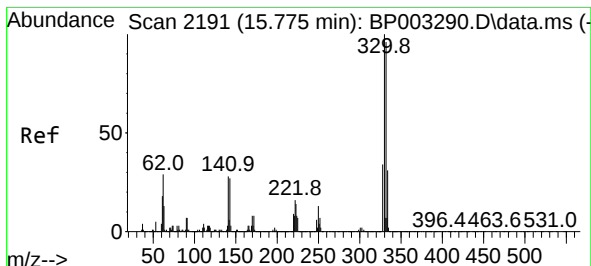
Ion Ratio Lower Upper

237 100

235 54.5 43.2 83.2

272 0.0 0.0 33.3

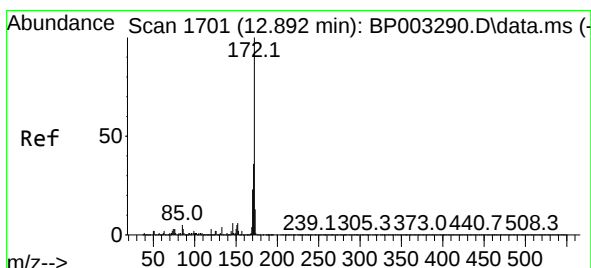
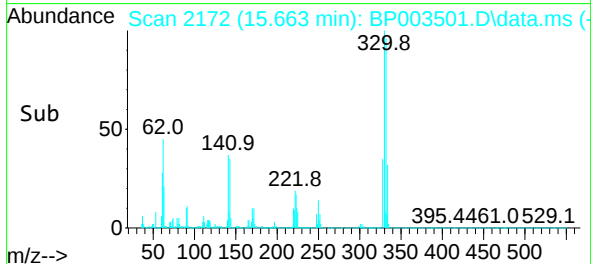
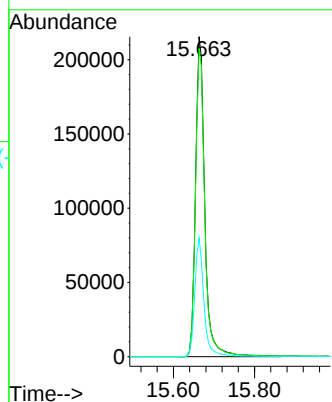
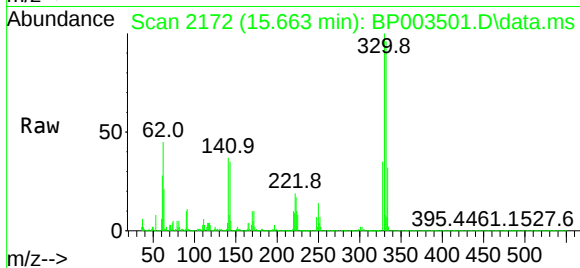




#42  
2,4,6-Tribromophenol  
Concen: 89.02 ng  
RT: 15.663 min Scan# 2172  
Delta R.T. 0.000 min  
Lab File: BP003501.D  
Acq: 05 Oct 2020 21:19

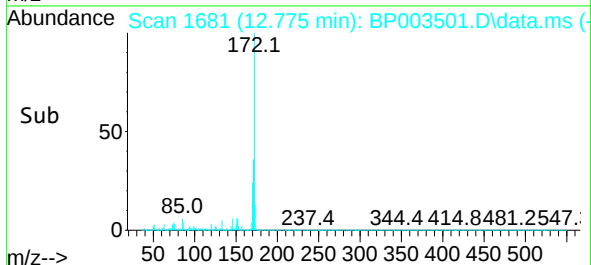
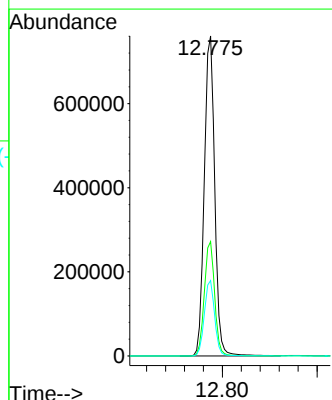
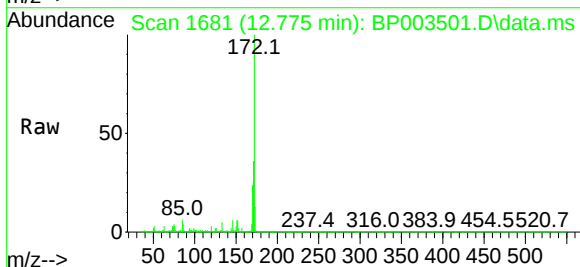
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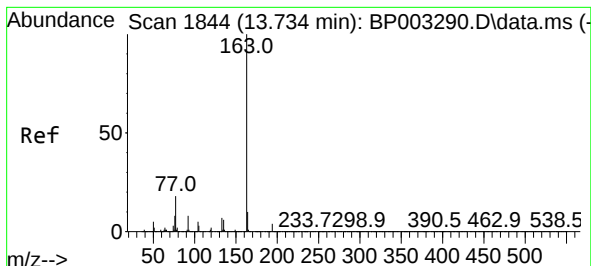
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Ion Ratio Lower Upper  
330 100  
332 96.9 77.1 115.7  
141 36.7 23.4 35.2#



#45  
2-Fluorobiphenyl  
Concen: 67.12 ng  
RT: 12.775 min Scan# 1681  
Delta R.T. 0.000 min  
Lab File: BP003501.D  
Acq: 05 Oct 2020 21:19

Tgt Ion:172 Resp: 1164116  
Ion Ratio Lower Upper  
172 100  
171 35.7 28.5 42.7  
170 23.6 19.2 28.8

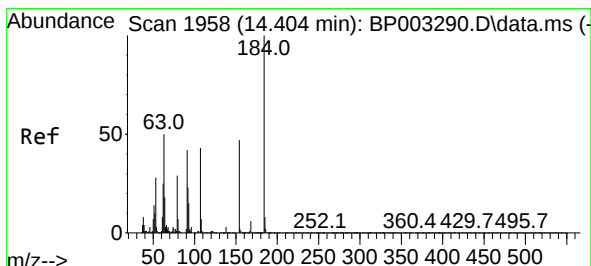
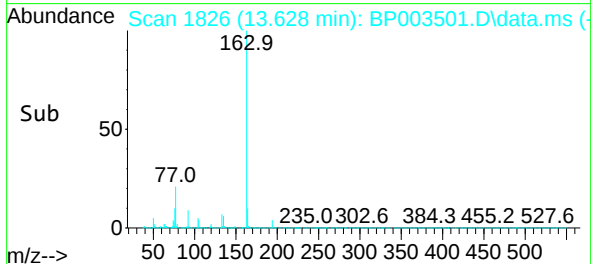
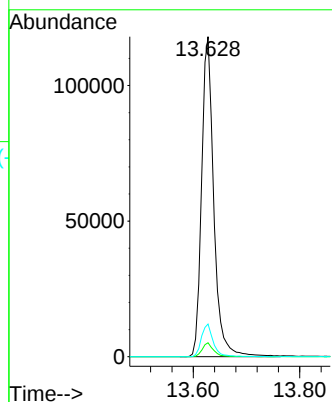
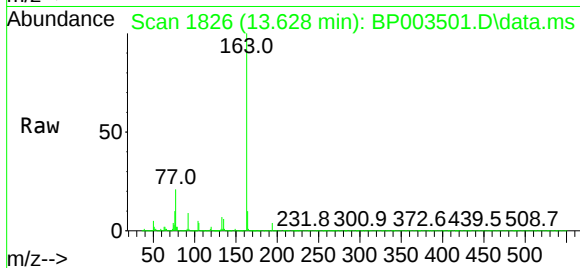




#50  
Dimethylphthalate  
Concen: 9.24 ng  
RT: 13.628 min Scan# 1826  
Delta R.T. 0.000 min  
Lab File: BP003501.D  
Acq: 05 Oct 2020 21:19

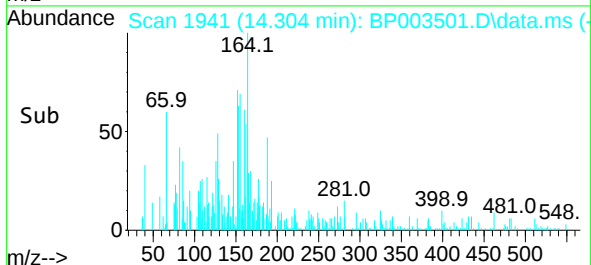
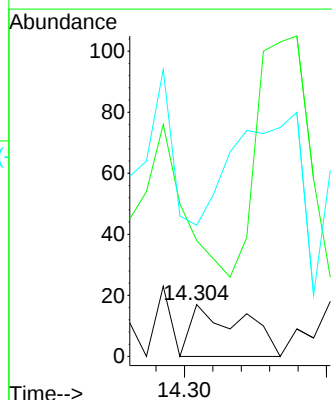
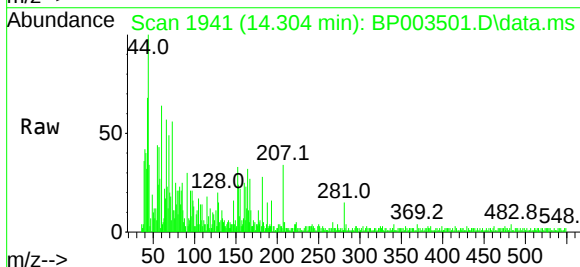
Instrument :  
BNA\_P  
ClientSampleId :  
PAV-B21-100220-10-18.5

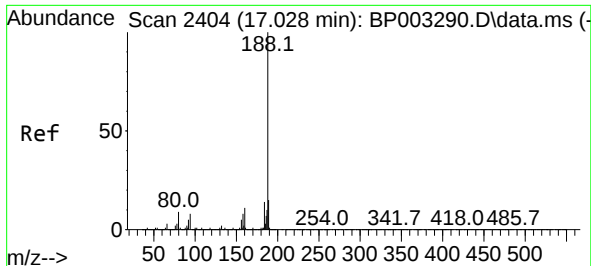
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Ion Ratio Lower Upper  
163 100  
194 4.3 3.3 4.9  
164 10.2 8.2 12.2



#54  
2,4-Dinitrophenol  
Concen: 7.26 ng  
RT: 14.304 min Scan# 1941  
Delta R.T. -0.023 min  
Lab File: BP003501.D  
Acq: 05 Oct 2020 21:19

Tgt Ion:184 Resp: 22  
Ion Ratio Lower Upper  
184 100  
63 223.5 32.3 48.5#  
154 252.9 49.1 73.7#

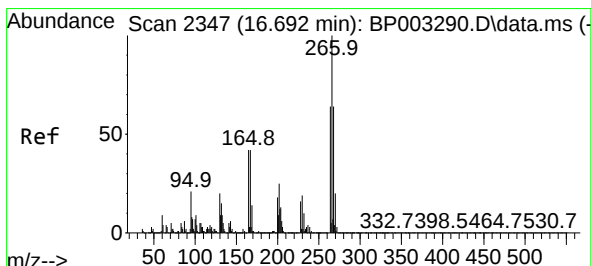
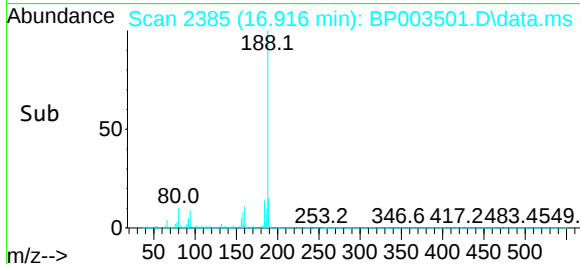
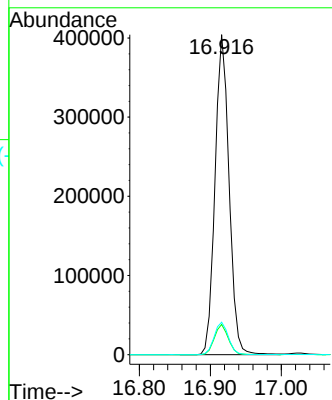
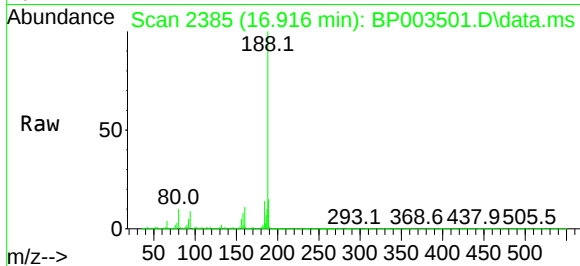




#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 16.916 min Scan# 2385  
Delta R.T. 0.000 min  
Lab File: BP003501.D  
Acq: 05 Oct 2020 21:19

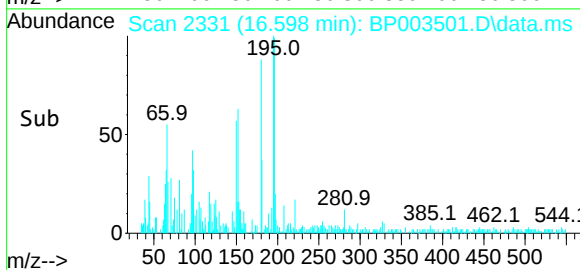
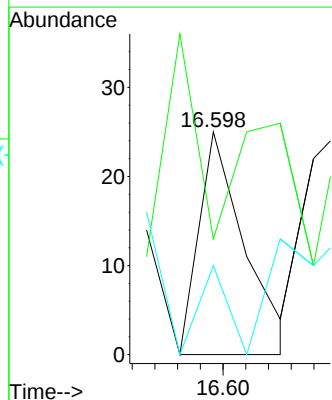
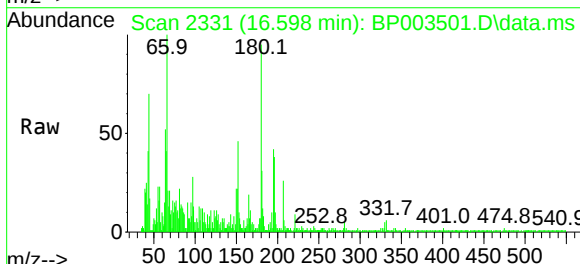
Instrument :  
BNA\_P  
ClientSampleId :  
PAV-B21-100220-10-18.5

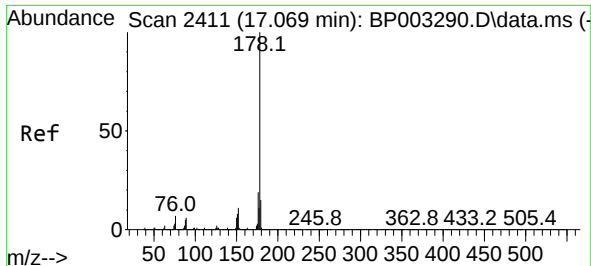
Tgt Ion:188 Resp: 553941  
Ion Ratio Lower Upper  
188 100  
94 9.5 6.2 9.2#  
80 10.2 6.2 9.2#



#70  
Pentachlorophenol  
Concen: 6.77 ng  
RT: 16.598 min Scan# 2331  
Delta R.T. 0.006 min  
Lab File: BP003501.D  
Acq: 05 Oct 2020 21:19

Tgt Ion:266 Resp: 14  
Ion Ratio Lower Upper  
266 100  
268 96.0 51.1 76.7#  
264 40.0 50.6 76.0#

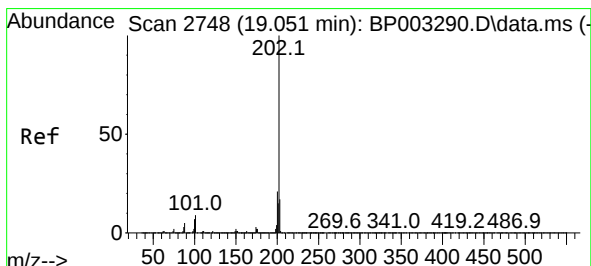
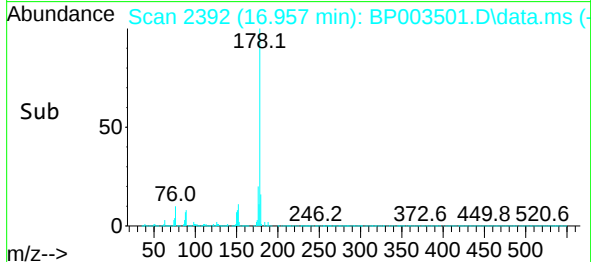
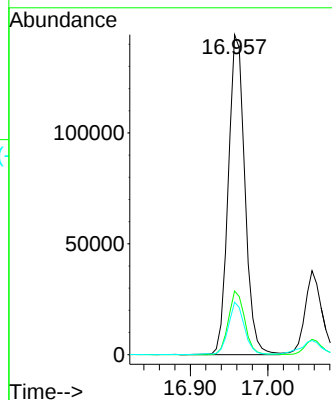
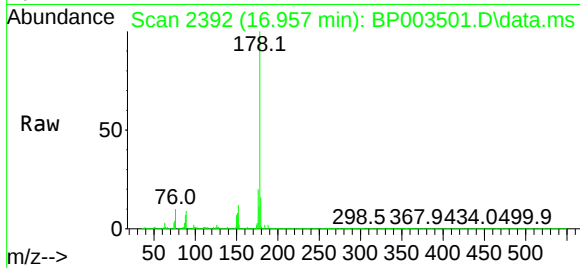




#71  
Phenanthrene  
Concen: 7.12 ng  
RT: 16.957 min Scan# 2392  
Delta R.T. 0.000 min  
Lab File: BP003501.D  
Acq: 05 Oct 2020 21:19

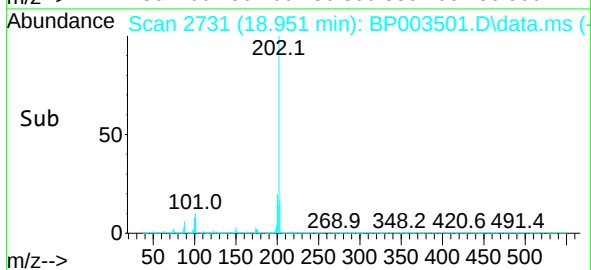
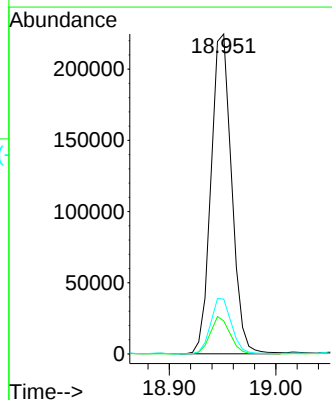
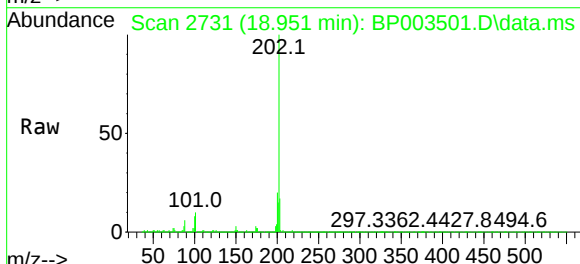
Instrument :  
BNA\_P  
ClientSampleId :  
PAV-B21-100220-10-18.5

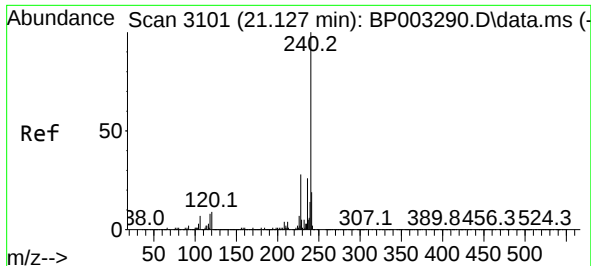
Tgt Ion:178 Resp: 214696  
Ion Ratio Lower Upper  
178 100  
176 19.9 15.3 22.9  
179 16.4 12.5 18.7



#75  
Fluoranthene  
Concen: 7.95 ng  
RT: 18.951 min Scan# 2731  
Delta R.T. 0.006 min  
Lab File: BP003501.D  
Acq: 05 Oct 2020 21:19

Tgt Ion:202 Resp: 301440  
Ion Ratio Lower Upper  
202 100  
101 10.3 0.0 29.4  
203 17.1 0.0 37.8

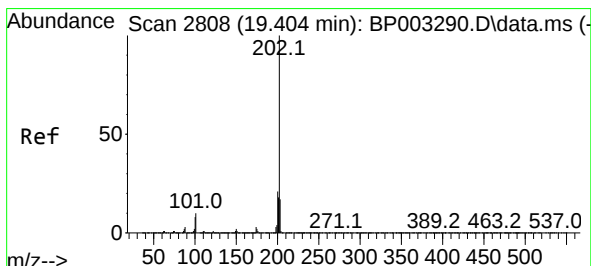
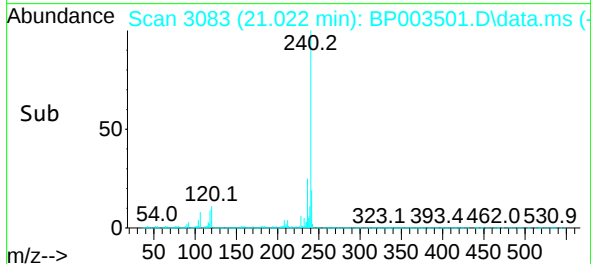
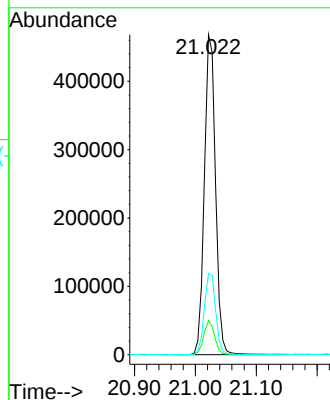
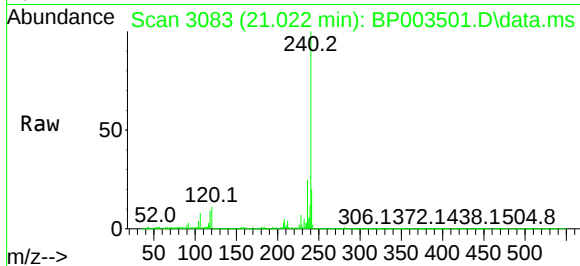




#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.022 min Scan# 3083  
Delta R.T. -0.006 min  
Lab File: BP003501.D  
Acq: 05 Oct 2020 21:19

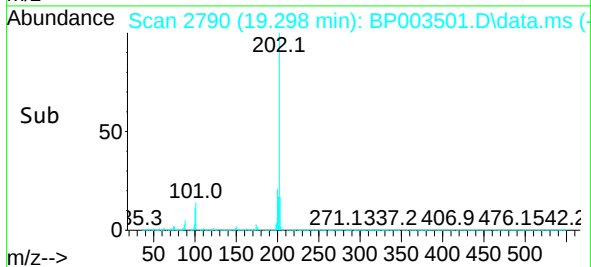
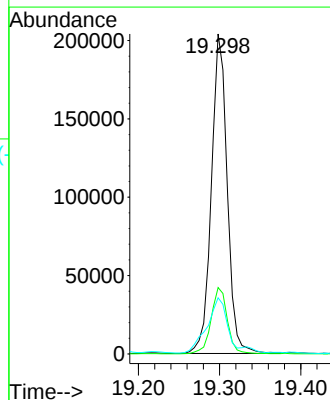
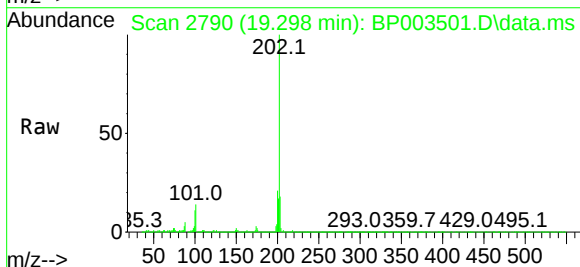
Instrument :  
BNA\_P  
ClientSampleId :  
PAV-B21-100220-10-18.5

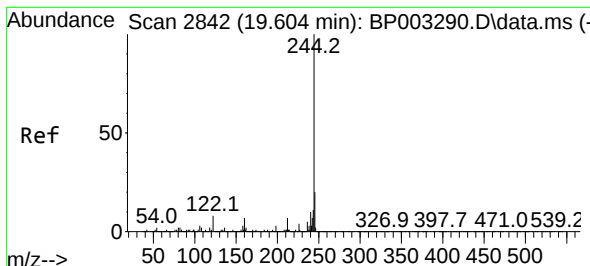
Tgt Ion:240 Resp: 594888  
Ion Ratio Lower Upper  
240 100  
120 10.7 7.8 11.6  
236 25.4 20.8 31.2



#78  
Pyrene  
Concen: 7.45 ng  
RT: 19.298 min Scan# 2790  
Delta R.T. 0.000 min  
Lab File: BP003501.D  
Acq: 05 Oct 2020 21:19

Tgt Ion:202 Resp: 276376  
Ion Ratio Lower Upper  
202 100  
200 20.7 17.1 25.7  
203 17.6 14.2 21.2



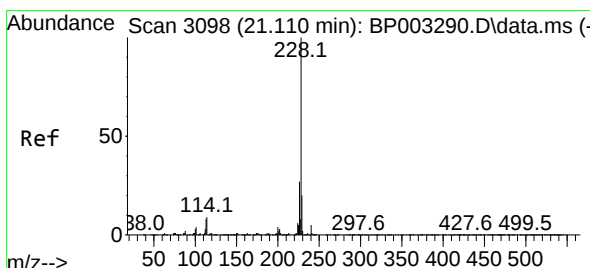
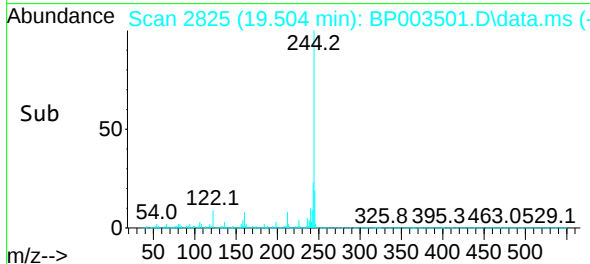
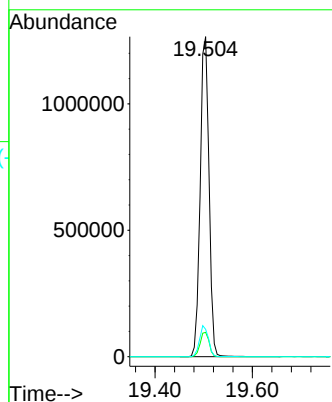
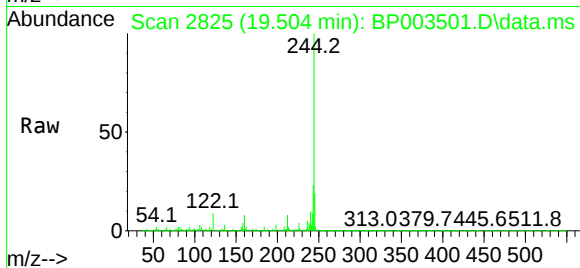


#79  
 Terphenyl-d14  
 Concen: 55.90 ng  
 RT: 19.504 min Scan# 2825  
 Delta R.T. 0.000 min  
 Lab File: BP003501.D  
 Acq: 05 Oct 2020 21:19

Instrument :  
 BNA\_P  
 ClientSampleId :  
 PAV-B21-100220-10-18.5

Tgt Ion:244 Resp: 1595988  

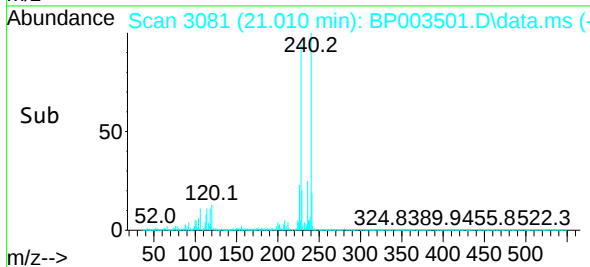
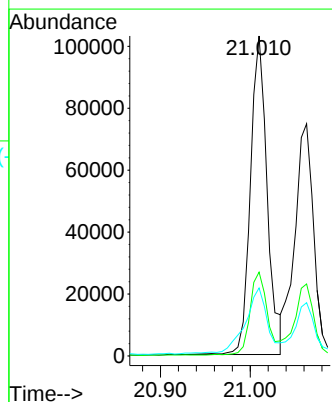
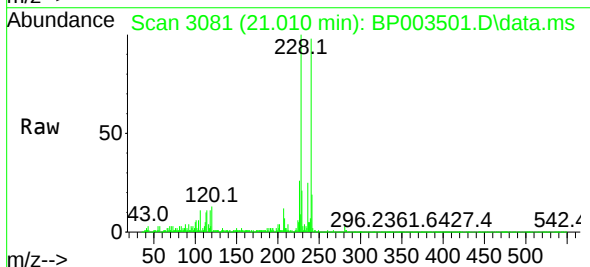
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.6   | 5.8   | 8.6   |
| 122 | 8.5   | 7.8   | 11.8  |

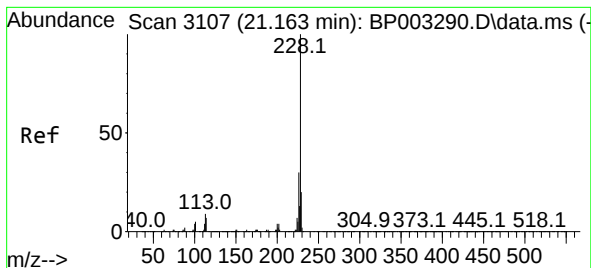


#81  
 Benzo(a)anthracene  
 Concen: 3.47 ng  
 RT: 21.010 min Scan# 3081  
 Delta R.T. 0.000 min  
 Lab File: BP003501.D  
 Acq: 05 Oct 2020 21:19

Tgt Ion:228 Resp: 133352  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 26.2  | 22.1  | 33.1  |
| 229 | 21.3  | 15.9  | 23.9  |





#83

Chrysene

Concen: 2.97 ng

RT: 21.063 min Scan# 3090

Delta R.T. 0.000 min

Lab File: BP003501.D

Acq: 05 Oct 2020 21:19

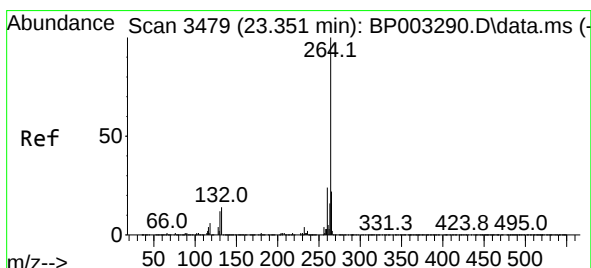
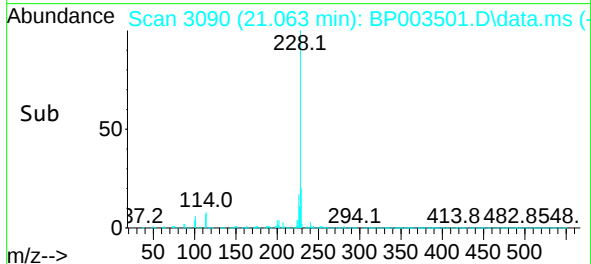
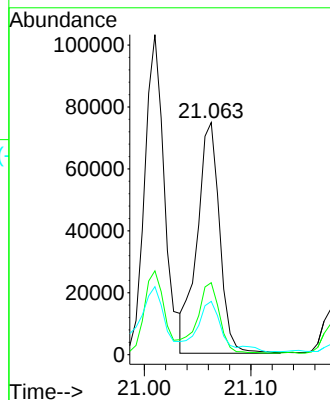
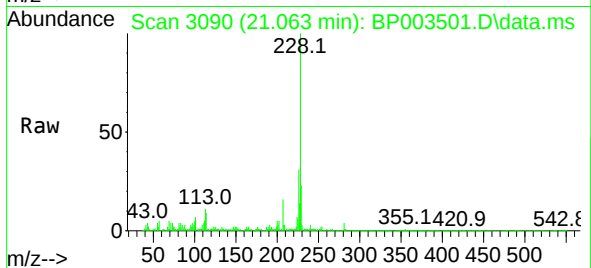
Tgt Ion:228 Resp: 109687

Ion Ratio Lower Upper

228 100

226 31.0 24.4 36.6

229 23.0 15.8 23.6



#86

Perylene-d12

Concen: 20.00 ng

RT: 23.198 min Scan# 3453

Delta R.T. 0.000 min

Lab File: BP003501.D

Acq: 05 Oct 2020 21:19

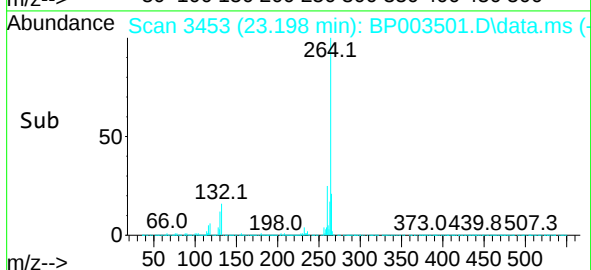
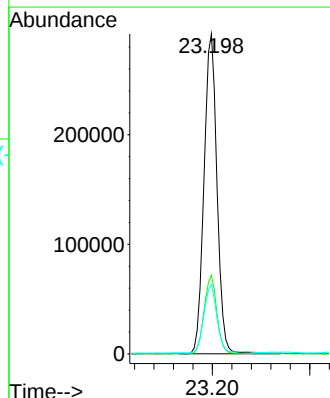
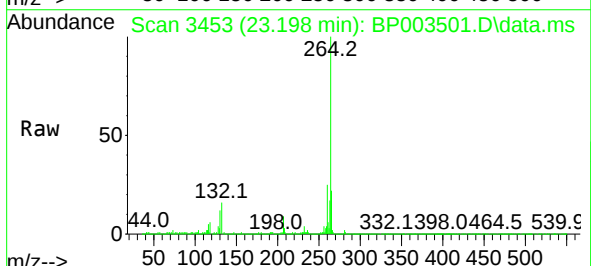
Tgt Ion:264 Resp: 537633

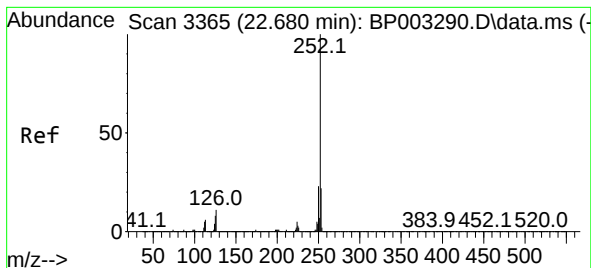
Ion Ratio Lower Upper

264 100

260 24.6 18.8 28.2

265 21.6 17.4 26.2





#88

Benzo(b)fluoranthene

Concen: 3.86 ng

RT: 22.551 min Scan# 3343

Delta R.T. 0.006 min

Lab File: BP003501.D

Acq: 05 Oct 2020 21:19

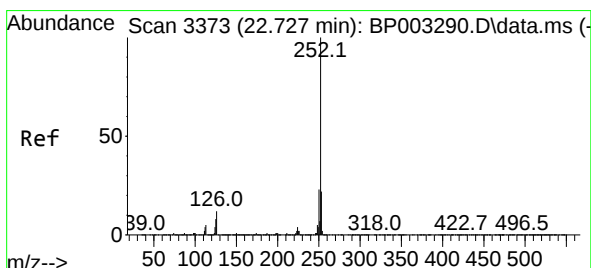
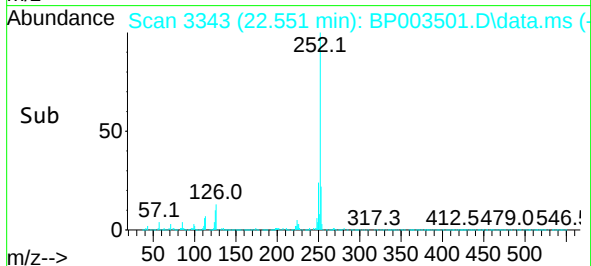
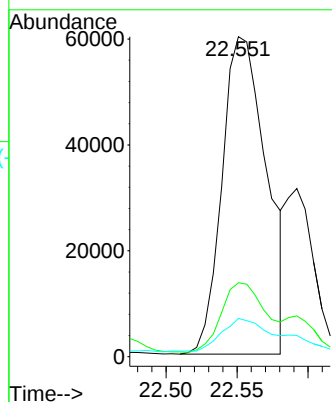
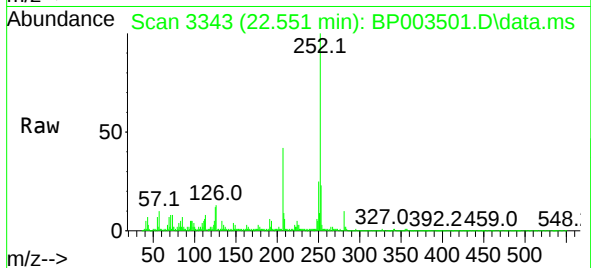
Instrument :

BNA\_P

ClientSampleId :

PAV-B21-100220-10-18.5

|             |                |
|-------------|----------------|
| Tgt Ion:252 | Resp: 130884   |
| Ion Ratio   | Lower Upper    |
| 252         | 100            |
| 253         | 23.1 17.6 26.4 |
| 125         | 11.9 7.3 10.9# |



#89

Benzo(k)fluoranthene

Concen: 4.02 ng

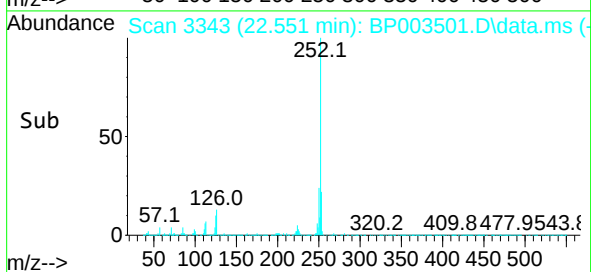
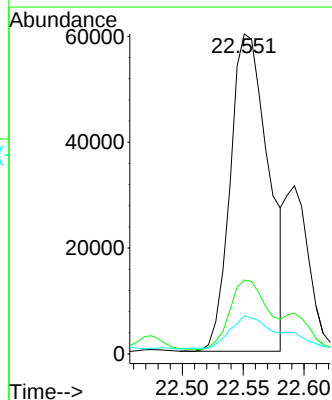
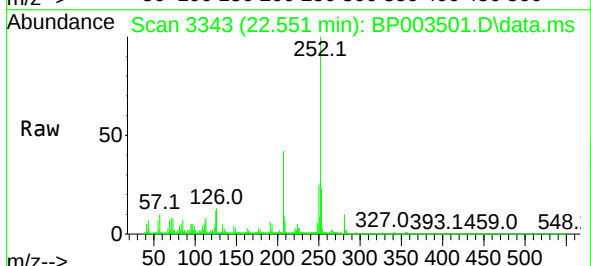
RT: 22.551 min Scan# 3343

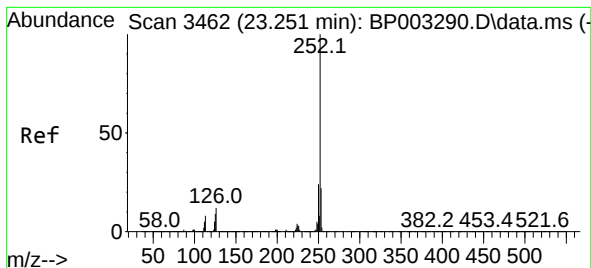
Delta R.T. -0.041 min

Lab File: BP003501.D

Acq: 05 Oct 2020 21:19

|             |                |
|-------------|----------------|
| Tgt Ion:252 | Resp: 130767   |
| Ion Ratio   | Lower Upper    |
| 252         | 100            |
| 253         | 23.1 17.8 26.8 |
| 125         | 11.9 7.4 11.2# |





#90

Benzo(a)pyrene

Concen: 3.20 ng

RT: 23.104 min Scan# 3437

Delta R.T. 0.000 min

Lab File: BP003501.D

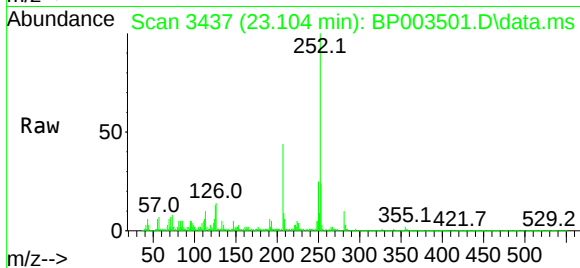
Acq: 05 Oct 2020 21:19

Instrument :

BNA\_P

ClientSampleId :

PAV-B21-100220-10-18.5



Tgt Ion:252 Resp: 102425

Ion Ratio Lower Upper

252 100

253 23.6 17.4 26.0

125 12.5 8.2 12.4#

