

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051021\  
 Data File : BN014559.D  
 Acq On : 10 May 2021 16:11  
 Operator : CG/JU  
 Sample : M2333-04  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BP-VPB-RW8-GW-658-660

Quant Time: May 10 16:49:56 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-SIM-BN050721.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 07 17:32:10 2021  
 Response via : Initial Calibration

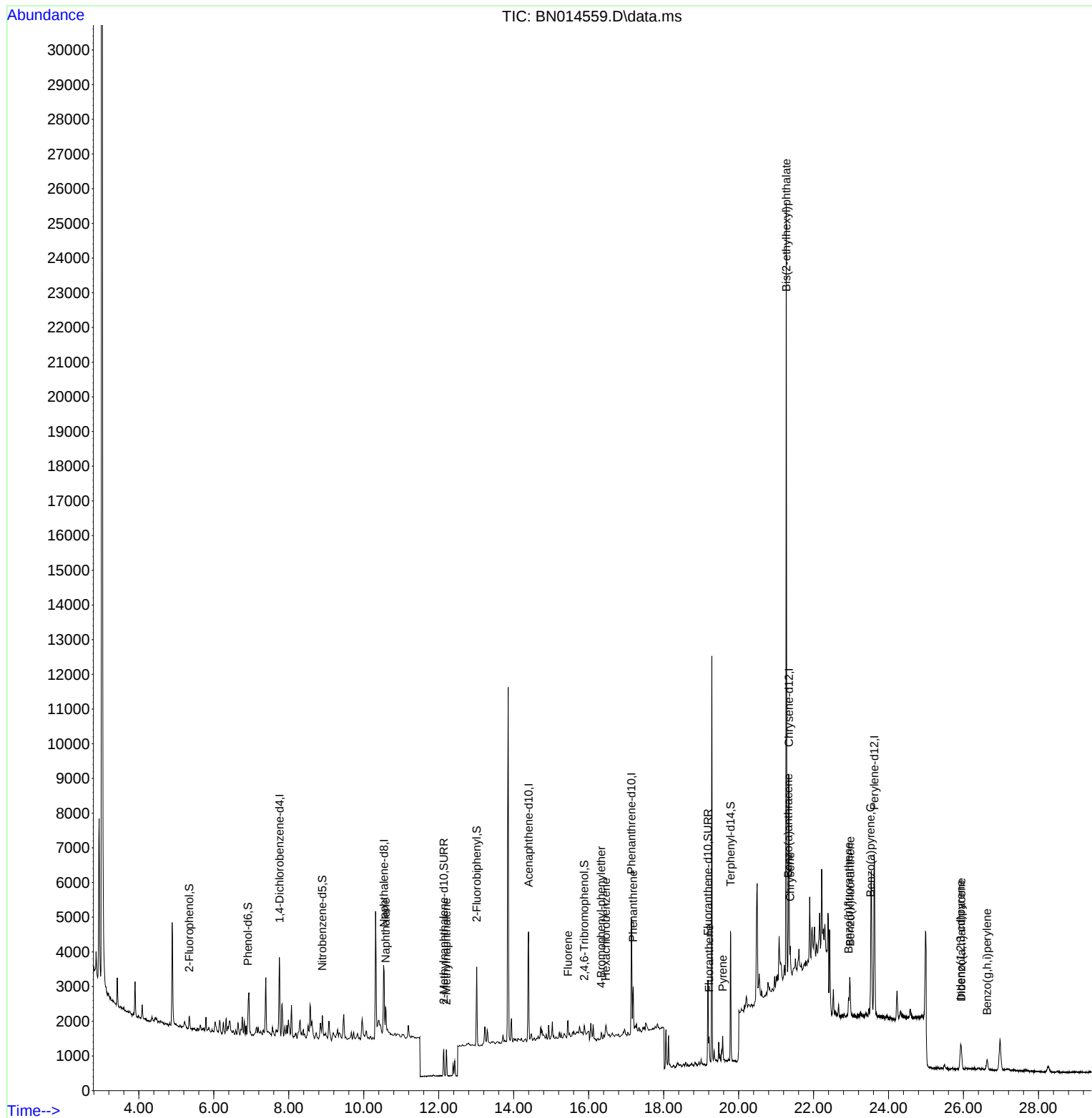
| Compound                      | R.T.   | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|------|-------|----------|
| -----                         |        |      |          |      |       |          |
| Internal Standards            |        |      |          |      |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.757  | 152  | 793      | 0.40 | ng    | # 0.00   |
| 7) Naphthalene-d8             | 10.543 | 136  | 2866     | 0.40 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 14.397 | 164  | 1963     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.141 | 188  | 4475     | 0.40 | ng    | #-0.01   |
| 29) Chrysene-d12              | 21.346 | 240  | 5952     | 0.40 | ng    | 0.00     |
| 35) Perylene-d12              | 23.619 | 264  | 5981     | 0.40 | ng    | #-0.01   |
| System Monitoring Compounds   |        |      |          |      |       |          |
| 4) 2-Fluorophenol             | 5.349  | 112  | 295      | 0.13 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.911  | 99   | 384      | 0.12 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.895  | 82   | 734      | 0.31 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 12.133 | 152  | 1017     | 0.15 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.881 | 330  | 161      | 0.18 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 13.014 | 172  | 1790     | 0.25 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.183 | 212  | 2820     | 0.15 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.784 | 244  | 3837     | 0.26 | ng    | 0.00     |
| Target Compounds              |        |      |          |      |       |          |
|                               |        |      |          |      |       | Qvalue   |
| 9) Naphthalene                | 10.581 | 128  | 1554     | 0.20 | ng    | # 79     |
| 12) 2-Methylnaphthalene       | 12.204 | 142  | 478      | 0.09 | ng    | # 79     |
| 18) Fluorene                  | 15.450 | 166  | 291      | 0.04 | ng    | # 86     |
| 21) 4-Bromophenyl-phenylether | 16.337 | 248  | 69       | 0.02 | ng    | # 57     |
| 22) Hexachlorobenzene         | 16.459 | 284  | 60       | 0.02 | ng    | # 23     |
| 25) Phenanthrene              | 17.189 | 178  | 1777     | 0.15 | ng    | # 96     |
| 28) Fluoranthene              | 19.213 | 202  | 668      | 0.04 | ng    | # 84     |
| 30) Pyrene                    | 19.576 | 202  | 674      | 0.04 | ng    | # 84     |
| 32) Benzo(a)anthracene        | 21.324 | 228  | 513      | 0.03 | ng    | # 62     |
| 33) Chrysene                  | 21.377 | 228  | 672      | 0.04 | ng    | # 64     |
| 34) Bis(2-ethylhexyl)phtha... | 21.271 | 149  | 16305    | 2.54 | ng    | # 78     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.923 | 276  | 743      | 0.03 | ng    | # 76     |
| 37) Benzo(b)fluoranthene      | 22.935 | 252  | 674      | 0.03 | ng    | # 1      |
| 38) Benzo(k)fluoranthene      | 22.979 | 252  | 680      | 0.04 | ng    | # 1      |
| 39) Benzo(a)pyrene            | 23.523 | 252  | 617      | 0.04 | ng    | # 1      |
| 40) Dibenzo(a,h)anthracene    | 25.940 | 278  | 536      | 0.03 | ng    | # 1      |
| 41) Benzo(g,h,i)perylene      | 26.628 | 276  | 651      | 0.03 | ng    | # 58     |
| -----                         |        |      |          |      |       |          |

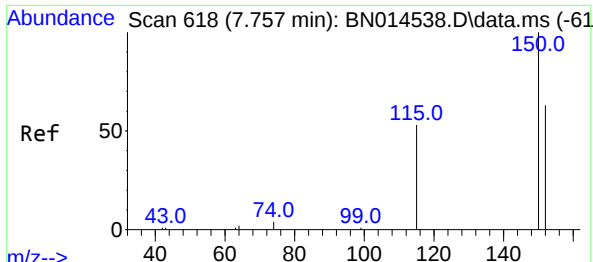
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051021\  
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Misc :  
ALS Vial : 10 Sample Multiplier: 1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri May 07 17:32:10 2021  
Response via : Initial Calibration

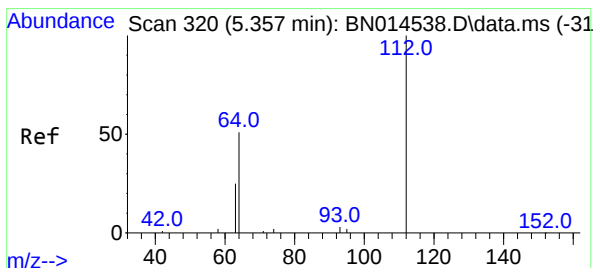
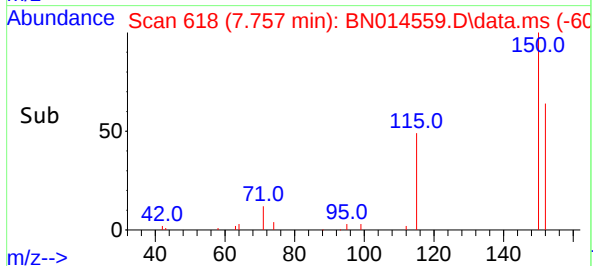
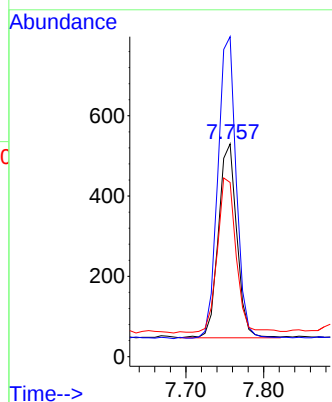
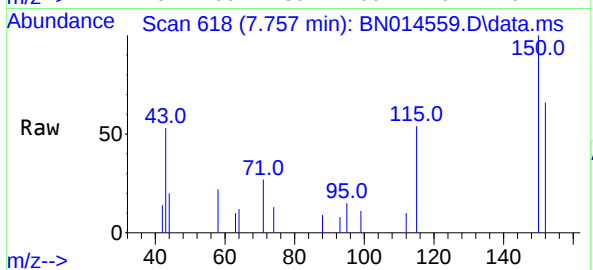




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.40 ng  
RT: 7.757 min Scan# 618  
Delta R.T. -0.000 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

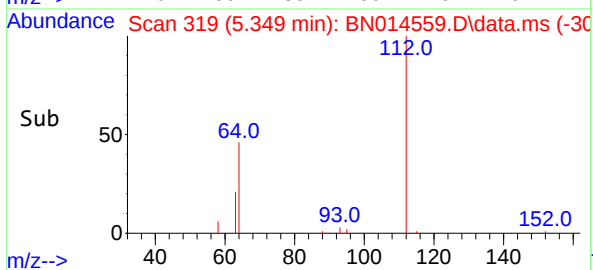
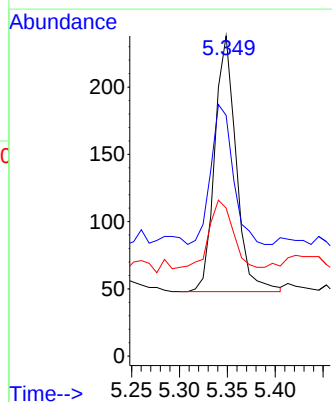
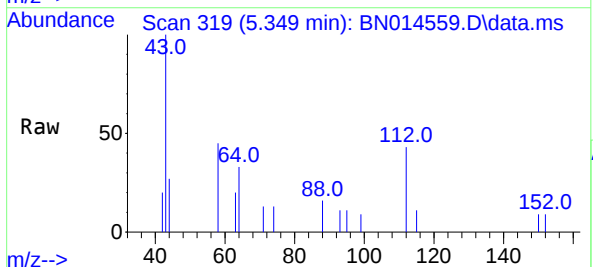
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-RW8-GW-658-660

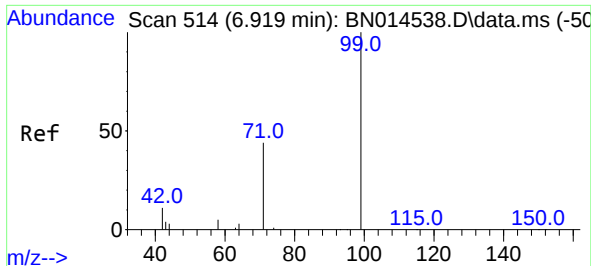
Tgt Ion:152 Resp: 793  
Ion Ratio Lower Upper  
152 100  
150 150.4 123.8 185.8  
115 81.9 47.0 70.4#



#4  
2-Fluorophenol  
Concen: 0.13 ng  
RT: 5.349 min Scan# 319  
Delta R.T. -0.008 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

Tgt Ion:112 Resp: 295  
Ion Ratio Lower Upper  
112 100  
64 56.9 41.8 62.6  
63 30.5 22.0 33.0

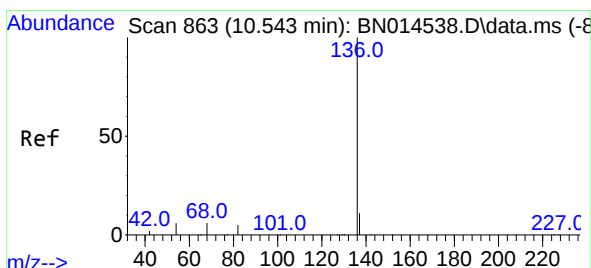
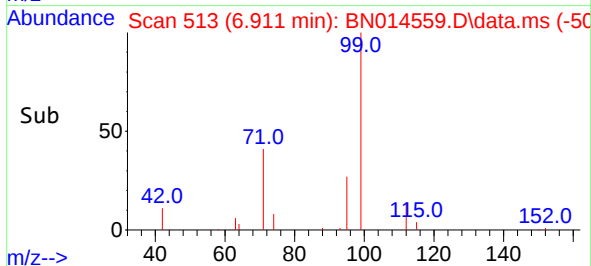
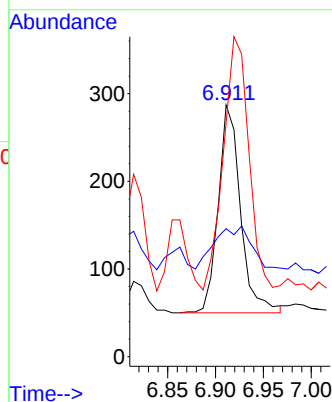
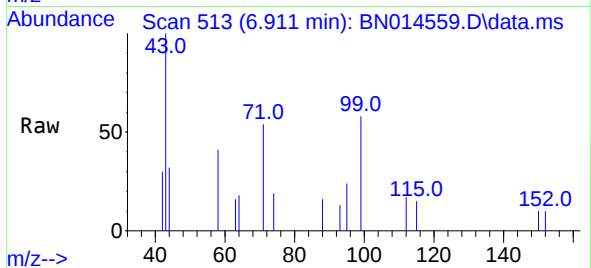




#5  
Phenol-d6  
Concen: 0.12 ng  
RT: 6.911 min Scan# 513  
Delta R.T. -0.008 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

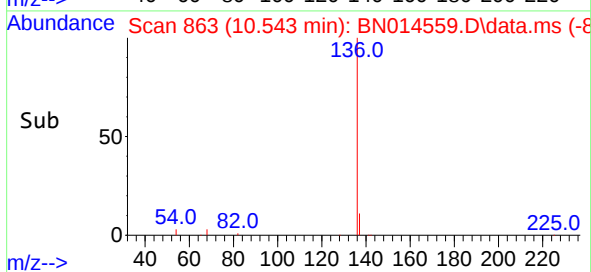
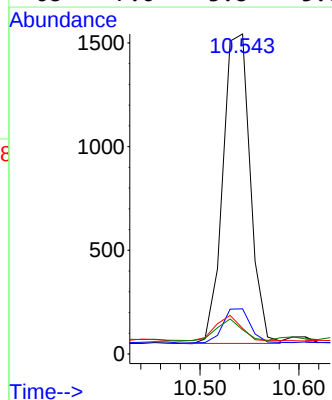
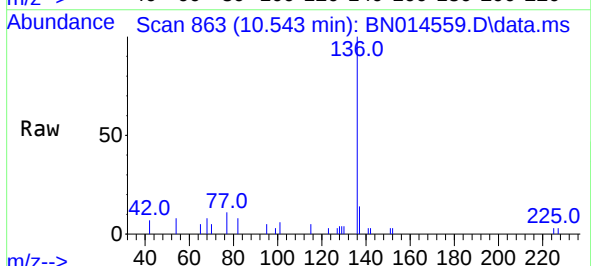
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-RW8-GW-658-660

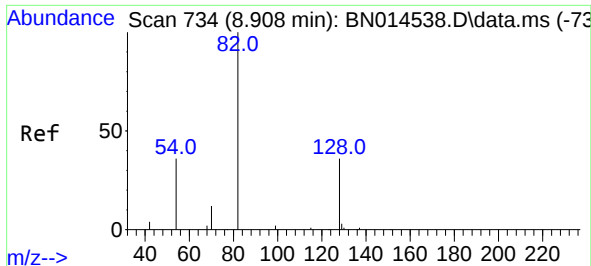
Tgt Ion: 99 Resp: 384  
Ion Ratio Lower Upper  
99 100  
42 33.1 13.2 19.8#  
71 138.5 26.2 39.2#



#7  
Naphthalene-d8  
Concen: 0.40 ng  
RT: 10.543 min Scan# 863  
Delta R.T. -0.000 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

Tgt Ion: 136 Resp: 2866  
Ion Ratio Lower Upper  
136 100  
137 14.1 8.9 13.3#  
54 8.0 3.8 5.8#  
68 7.6 3.8 5.6#

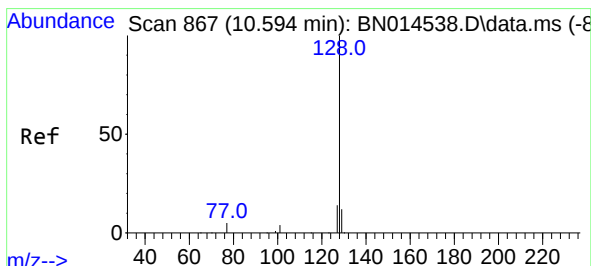
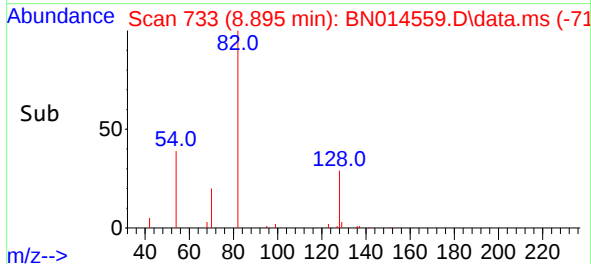
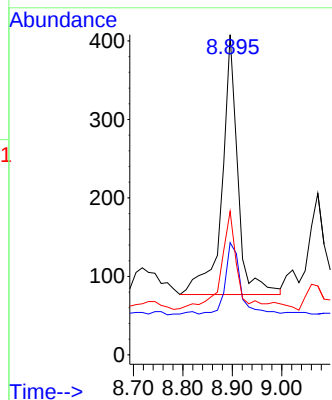
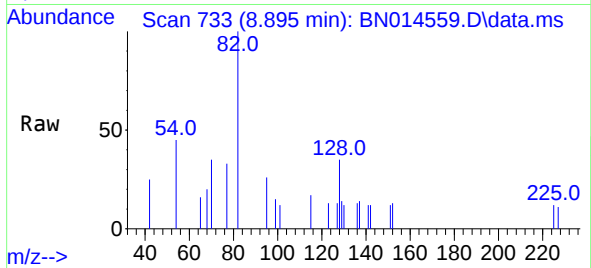




#8  
Nitrobenzene-d5  
Concen: 0.31 ng  
RT: 8.895 min Scan# 733  
Delta R.T. -0.013 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

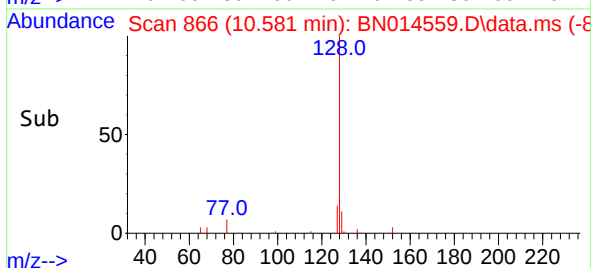
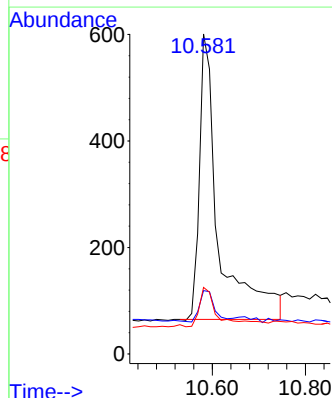
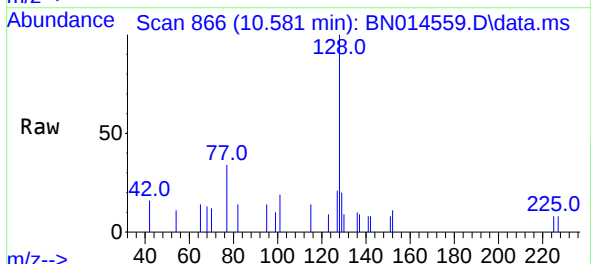
Instrument :  
BNA\_N  
ClientSampleId :  
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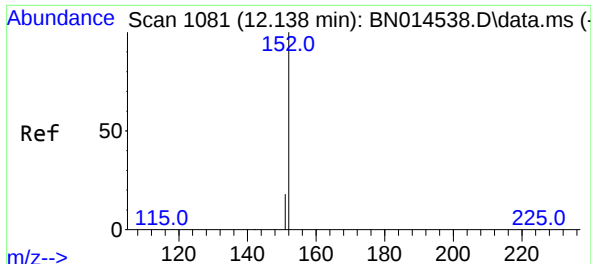
Tgt Ion: 82 Resp: 734  
Ion Ratio Lower Upper  
82 100  
128 35.0 29.5 44.3  
54 44.9 36.9 55.3



#9  
Naphthalene  
Concen: 0.20 ng  
RT: 10.581 min Scan# 866  
Delta R.T. -0.013 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

Tgt Ion: 128 Resp: 1554  
Ion Ratio Lower Upper  
128 100  
129 19.8 9.0 13.4#  
127 20.8 10.4 15.6#

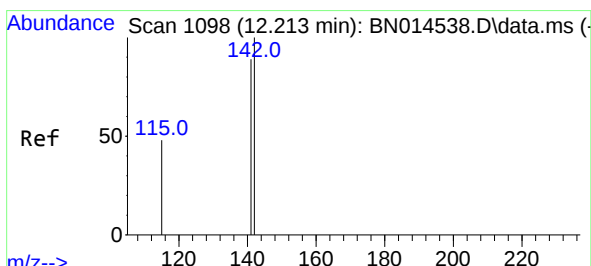
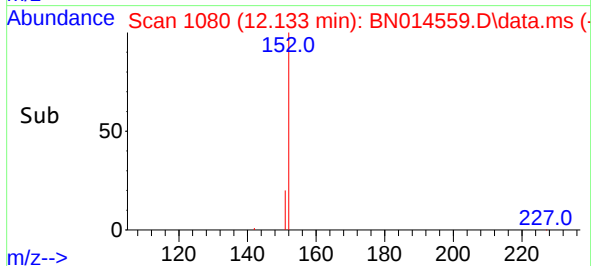
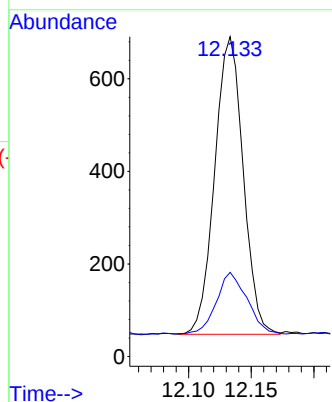
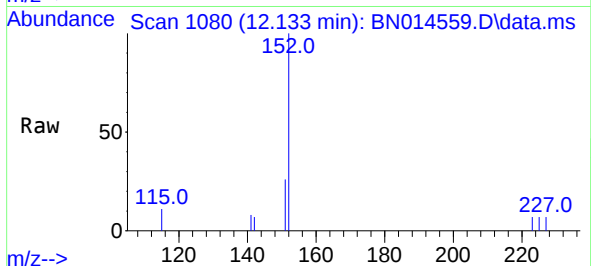




#11  
2-Methylnaphthalene-d10  
Concen: 0.15 ng  
RT: 12.133 min Scan# 1080  
Delta R.T. -0.004 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

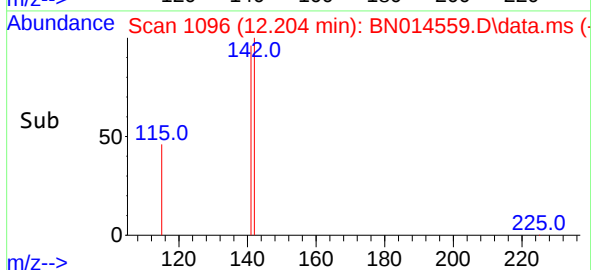
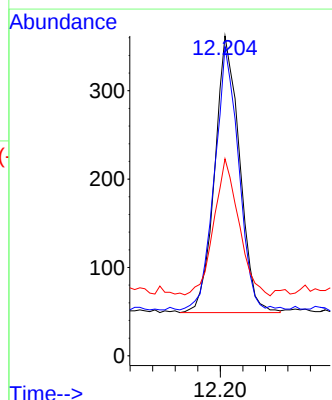
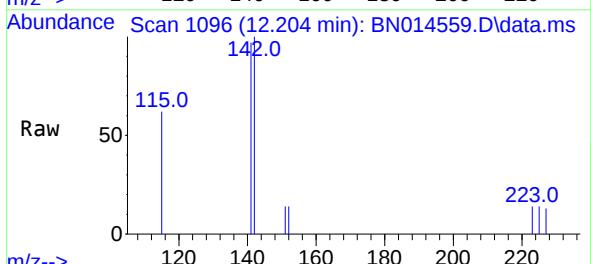
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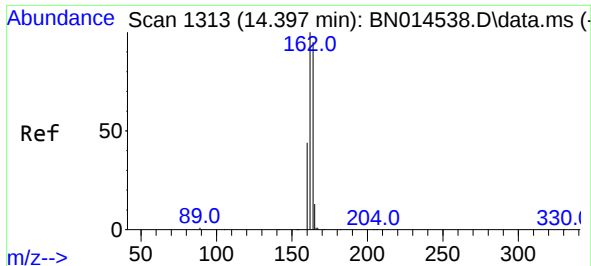
Tgt Ion:152 Resp: 1017  
Ion Ratio Lower Upper  
152 100  
151 22.0 16.2 24.2



#12  
2-Methylnaphthalene  
Concen: 0.09 ng  
RT: 12.204 min Scan# 1096  
Delta R.T. -0.009 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

Tgt Ion:142 Resp: 478  
Ion Ratio Lower Upper  
142 100  
141 96.7 70.2 105.4  
115 61.6 26.7 40.1#

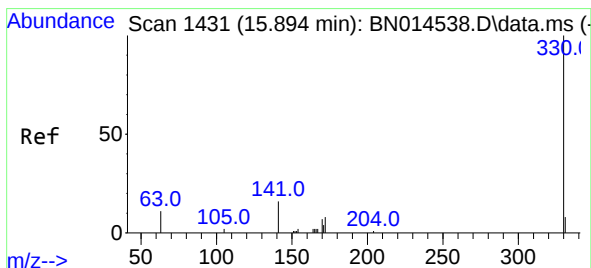
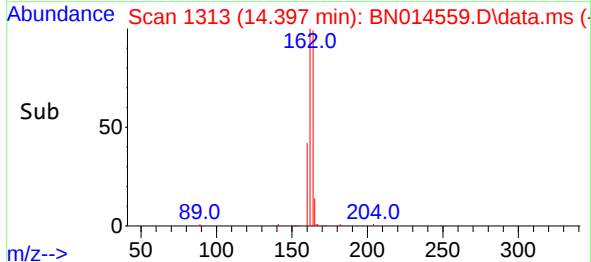
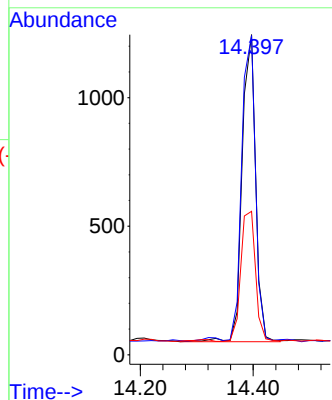
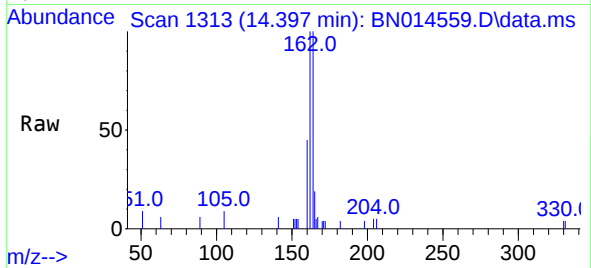




#13  
Acenaphthene-d10  
Concen: 0.40 ng  
RT: 14.397 min Scan# 1313  
Delta R.T. -0.000 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

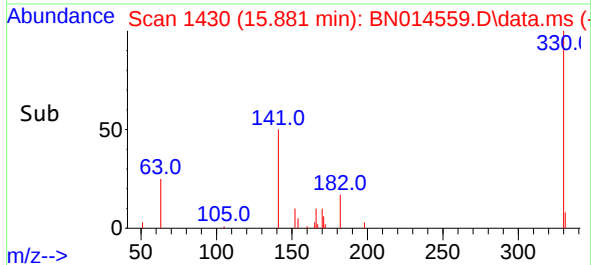
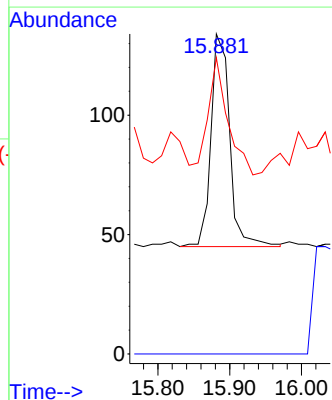
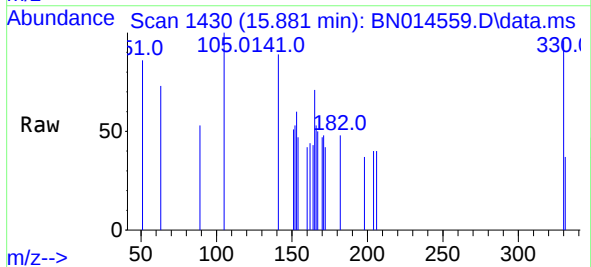
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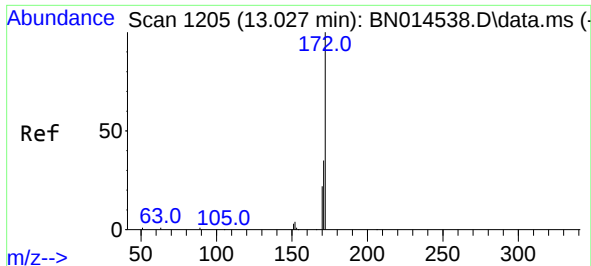
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Ion Ratio Lower Upper  
164 100  
162 99.7 78.6 118.0  
160 44.8 35.8 53.8



#14  
2,4,6-Tribromophenol  
Concen: 0.18 ng  
RT: 15.881 min Scan# 1430  
Delta R.T. -0.013 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

Tgt Ion:330 Resp: 161  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 58.4 27.0 40.4#

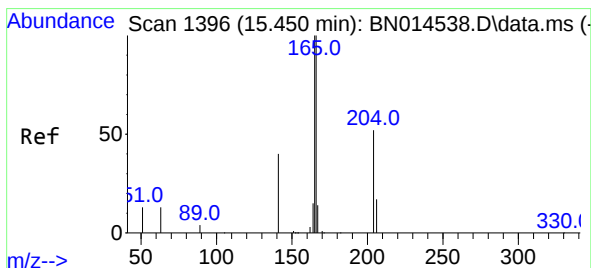
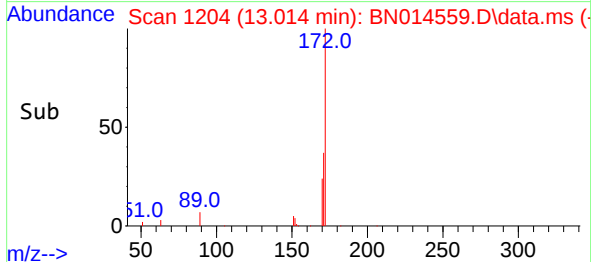
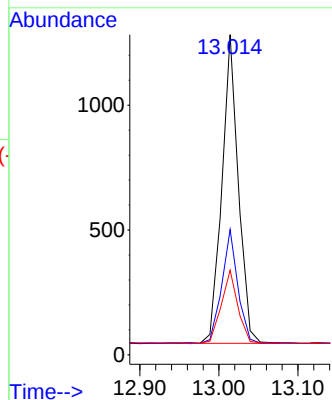
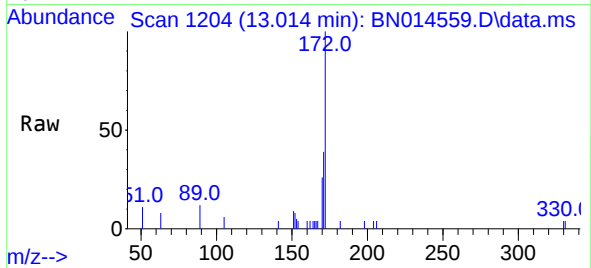




#15  
2-Fluorobiphenyl  
Concen: 0.25 ng  
RT: 13.014 min Scan# 1204  
Delta R.T. -0.013 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

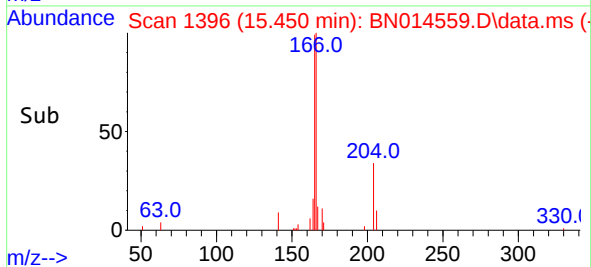
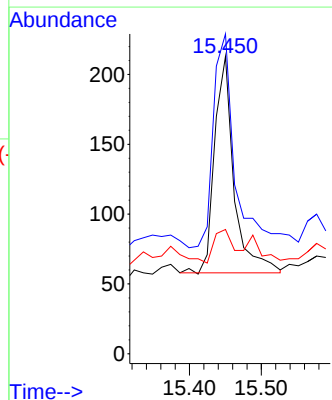
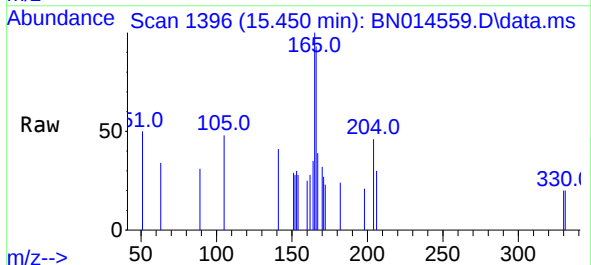
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-RW8-GW-658-660

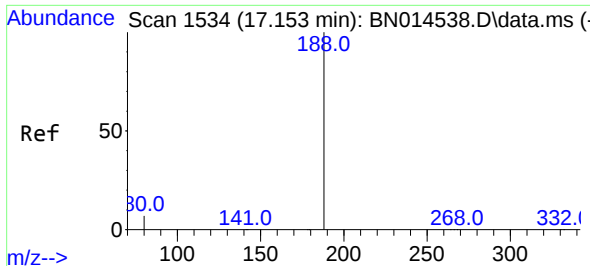
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|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 1790  |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 39.1  | 27.1  | 40.7  |
| 170      | 26.4  | 18.3  | 27.5  |



#18  
Fluorene  
Concen: 0.04 ng  
RT: 15.450 min Scan# 1396  
Delta R.T. -0.000 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 291   |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 113.1 | 78.4  | 117.6 |
| 167      | 16.5  | 10.7  | 16.1  |

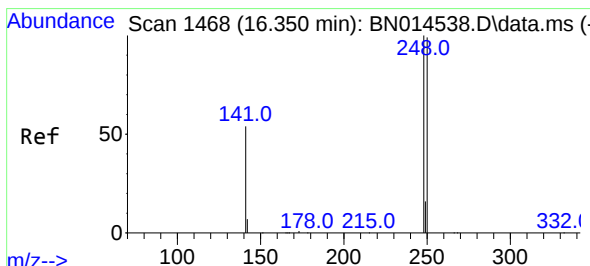
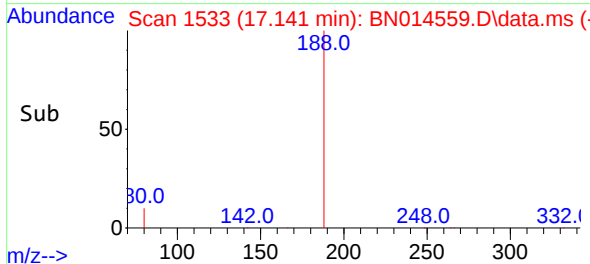
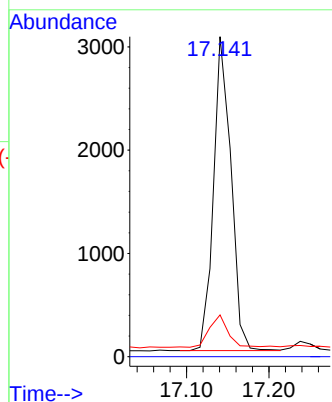
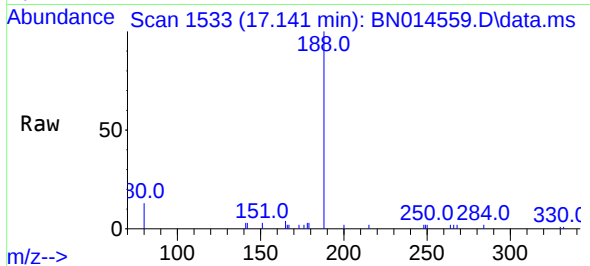




#19  
Phenanthrene-d10  
Concen: 0.40 ng  
RT: 17.141 min Scan# 1533  
Delta R.T. -0.012 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

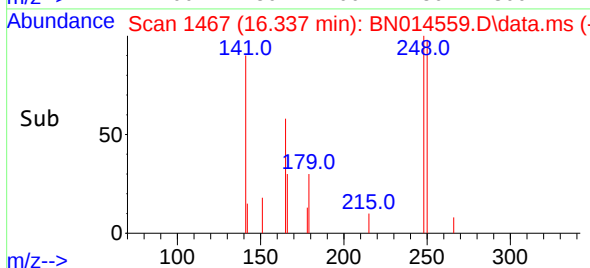
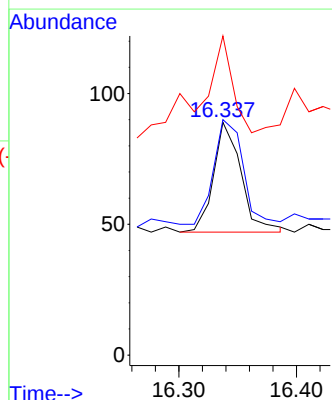
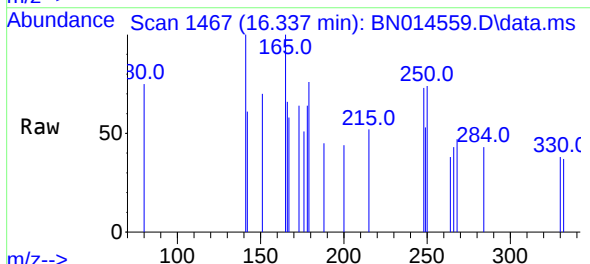
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-RW8-GW-658-660

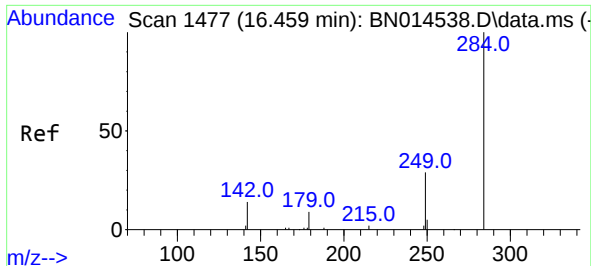
|             |       |       |
|-------------|-------|-------|
| Tgt Ion:188 | Resp: | 4475  |
| Ion Ratio   | Lower | Upper |
| 188         | 100   |       |
| 94          | 0.0   | 0.0   |
| 80          | 13.0  | 5.2   |



#21  
4-Bromophenyl-phenylether  
Concen: 0.02 ng  
RT: 16.337 min Scan# 1467  
Delta R.T. -0.012 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:248 | Resp: | 69    |
| Ion Ratio   | Lower | Upper |
| 248         | 100   |       |
| 250         | 101.1 | 80.5  |
| 141         | 137.1 | 37.2  |

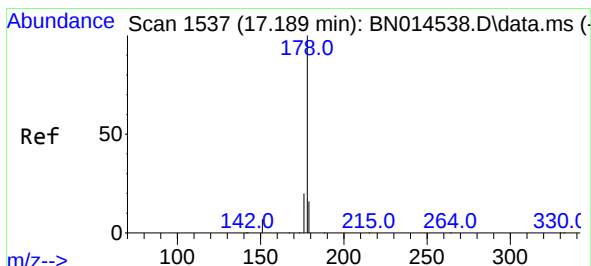
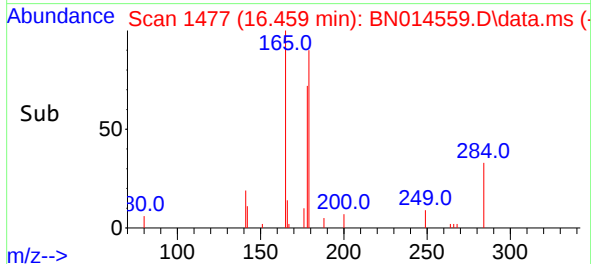
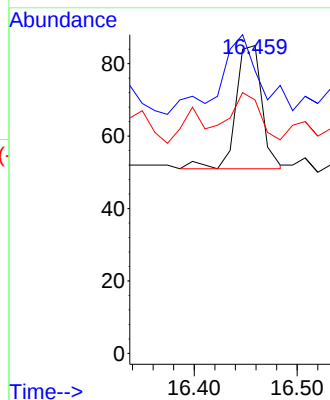
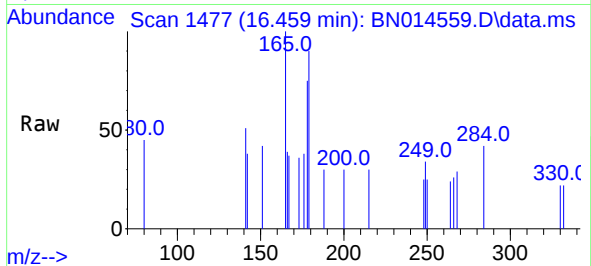




#22  
Hexachlorobenzene  
Concen: 0.02 ng  
RT: 16.459 min Scan# 1477  
Delta R.T. -0.000 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

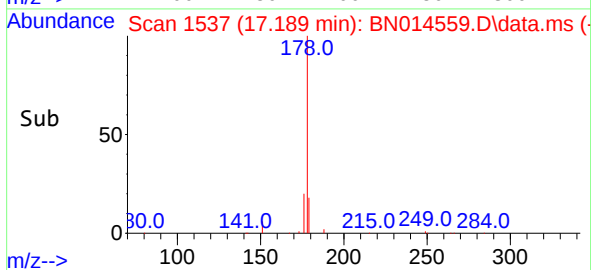
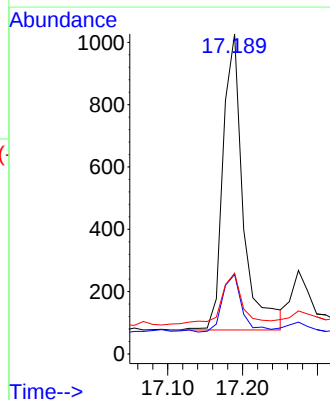
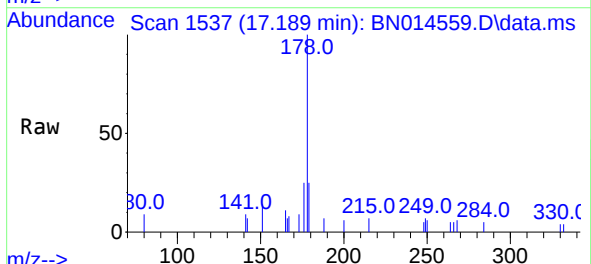
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-RW8-GW-658-660

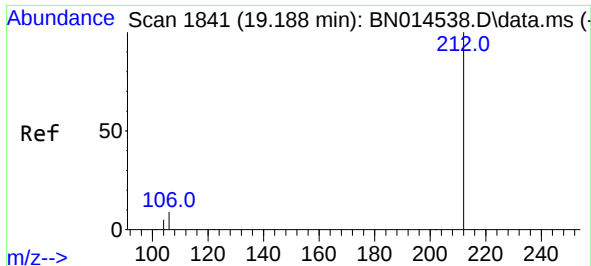
Tgt Ion:284 Resp: 60  
Ion Ratio Lower Upper  
284 100  
142 100.0 26.6 39.8#  
249 46.7 23.6 35.4#



#25  
Phenanthrene  
Concen: 0.15 ng  
RT: 17.189 min Scan# 1537  
Delta R.T. -0.000 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

Tgt Ion:178 Resp: 1777  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.2 22.8  
179 18.9 12.4 18.6#

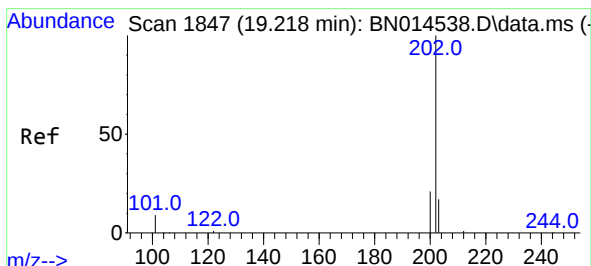
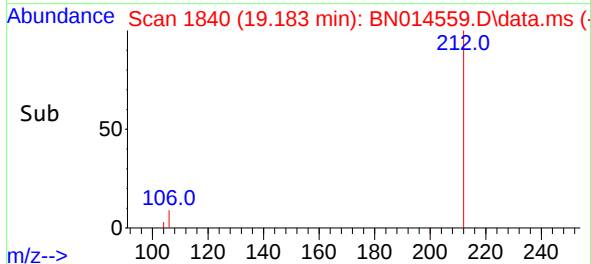
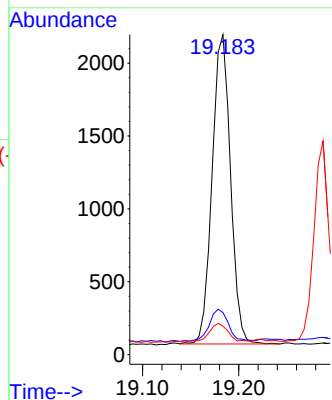
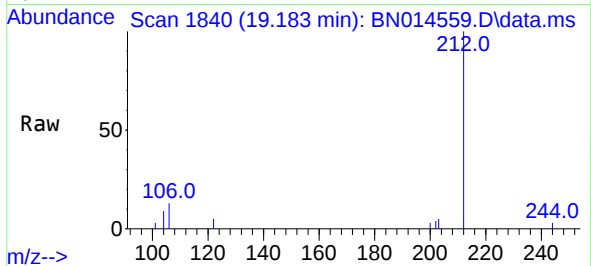




#27  
Fluoranthene-d10  
Concen: 0.15 ng  
RT: 19.183 min Scan# 1840  
Delta R.T. -0.005 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

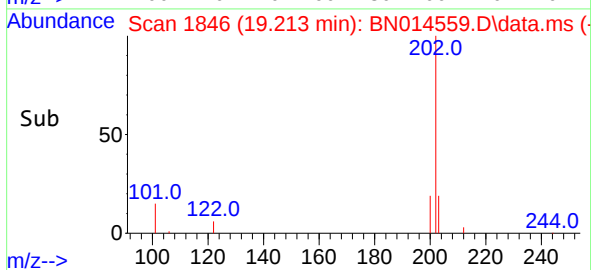
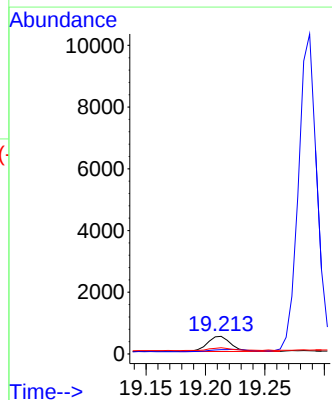
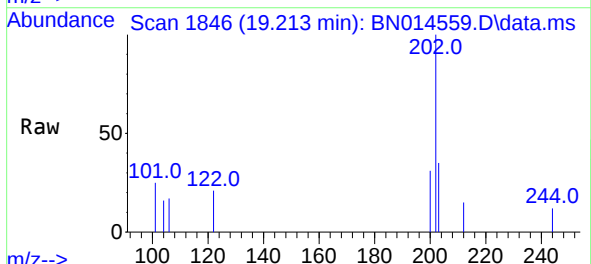
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-RW8-GW-658-660

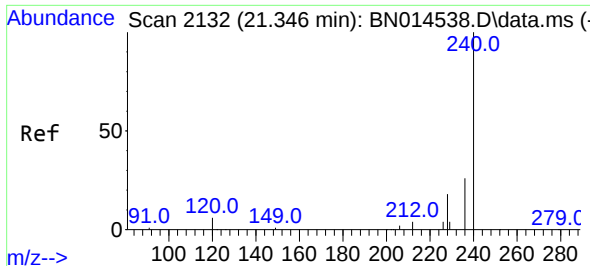
Tgt Ion:212 Resp: 2820  
Ion Ratio Lower Upper  
212 100  
106 10.9 10.1 15.1  
104 6.3 5.4 8.2



#28  
Fluoranthene  
Concen: 0.04 ng  
RT: 19.213 min Scan# 1846  
Delta R.T. -0.005 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

Tgt Ion:202 Resp: 668  
Ion Ratio Lower Upper  
202 100  
101 0.0 8.4 12.6#  
203 20.4 13.5 20.3#

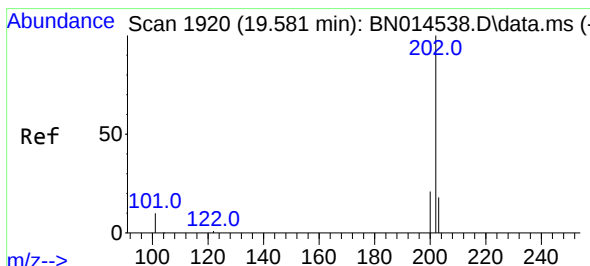
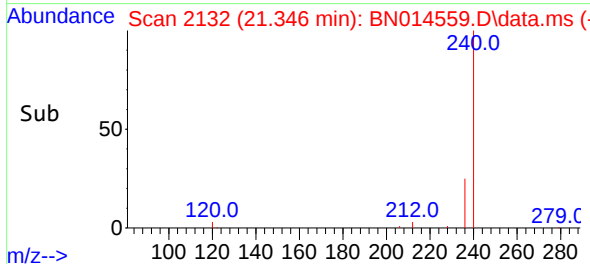
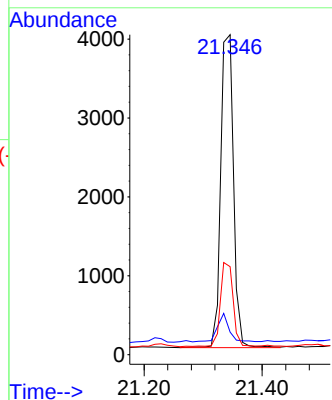
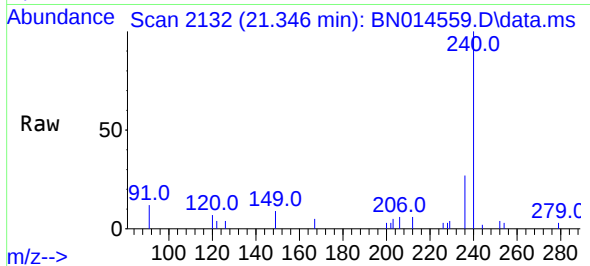




#29  
Chrysene-d12  
Concen: 0.40 ng  
RT: 21.346 min Scan# 2132  
Delta R.T. -0.000 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

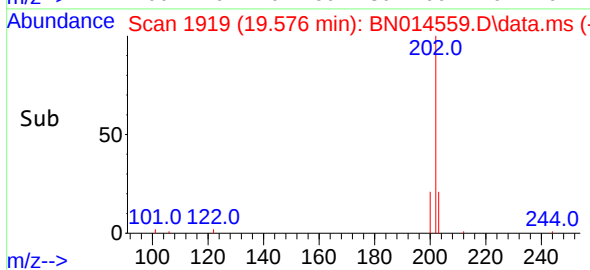
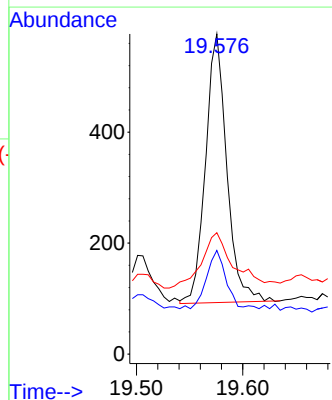
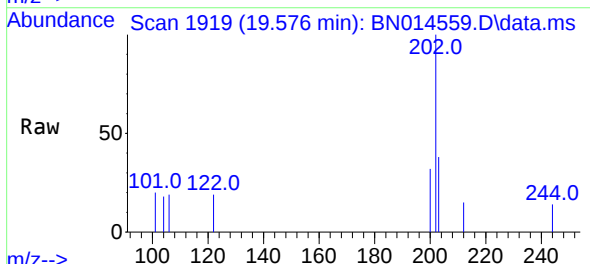
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-RW8-GW-658-660

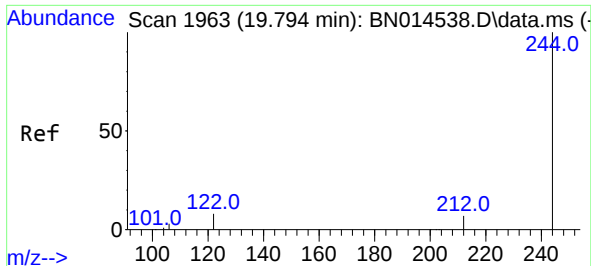
Tgt Ion:240 Resp: 5952  
Ion Ratio Lower Upper  
240 100  
120 7.1 5.8 8.8  
236 27.5 20.6 30.8



#30  
Pyrene  
Concen: 0.04 ng  
RT: 19.576 min Scan# 1919  
Delta R.T. -0.005 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

Tgt Ion:202 Resp: 674  
Ion Ratio Lower Upper  
202 100  
200 20.8 16.3 24.5  
203 31.9 14.0 21.0#

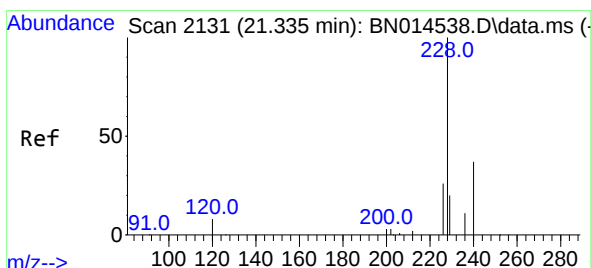
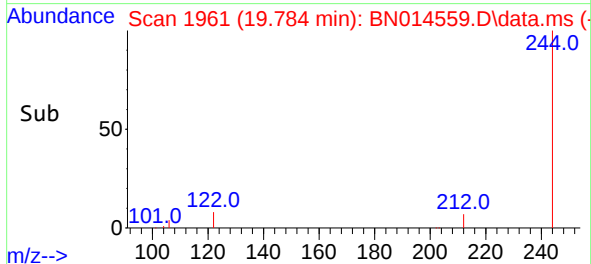
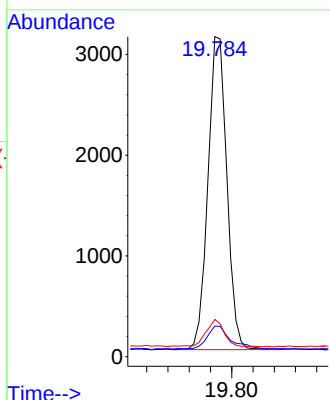
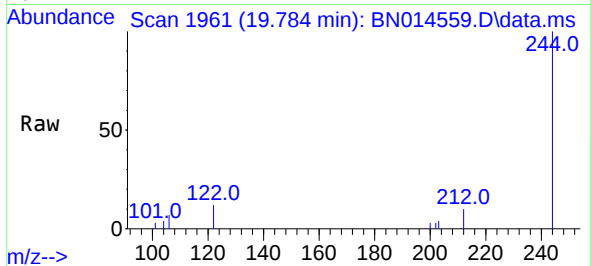




#31  
Terphenyl-d14  
Concen: 0.26 ng  
RT: 19.784 min Scan# 1961  
Delta R.T. -0.010 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

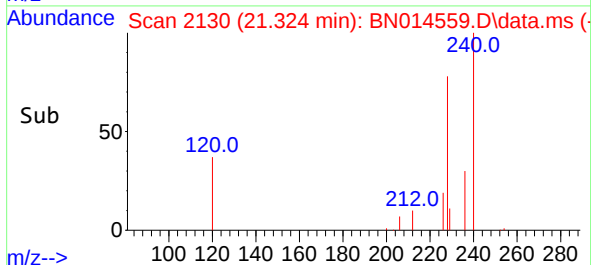
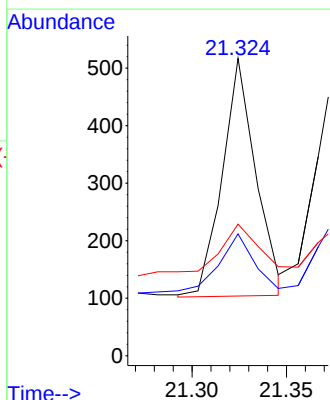
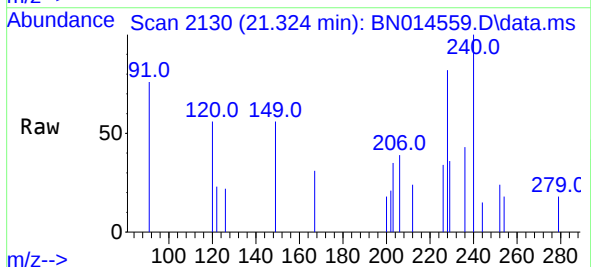
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-RW8-GW-658-660

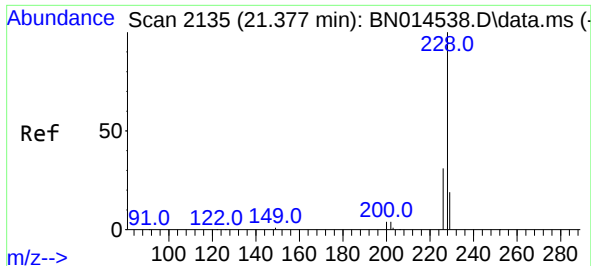
Tgt Ion:244 Resp: 3837  
Ion Ratio Lower Upper  
244 100  
212 9.5 6.0 9.0#  
122 11.7 9.3 13.9



#32  
Benzo(a)anthracene  
Concen: 0.03 ng  
RT: 21.324 min Scan# 2130  
Delta R.T. -0.011 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

Tgt Ion:228 Resp: 513  
Ion Ratio Lower Upper  
228 100  
226 41.0 21.7 32.5#  
229 44.3 15.7 23.5#

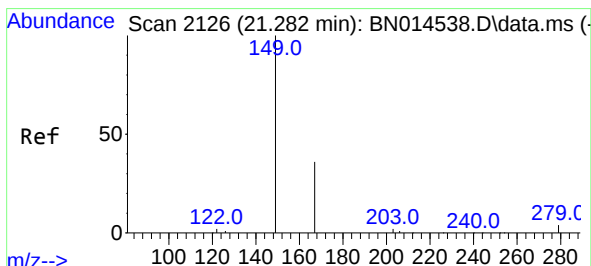
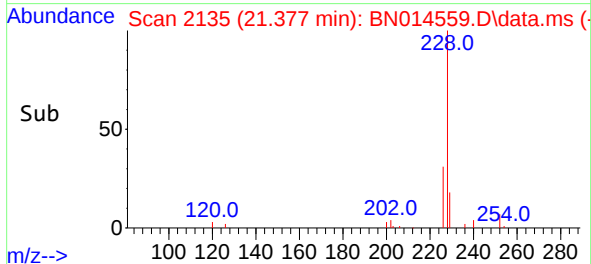
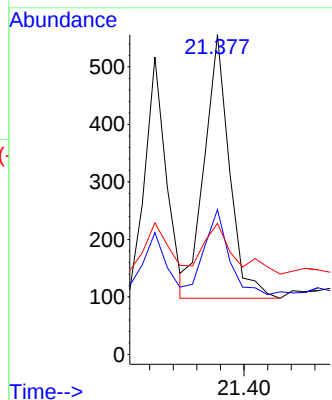
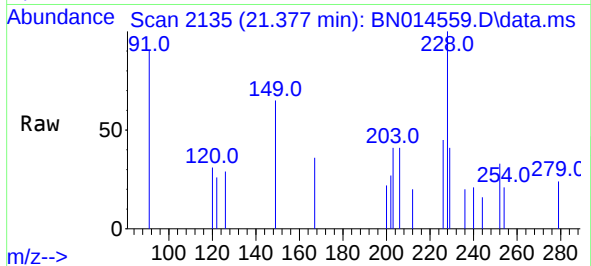




#33  
Chrysene  
Concen: 0.04 ng  
RT: 21.377 min Scan# 2135  
Delta R.T. -0.000 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

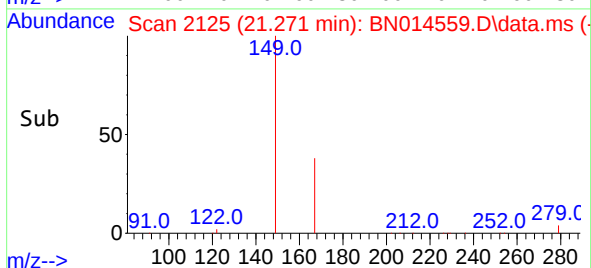
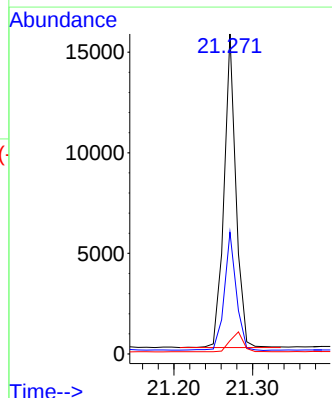
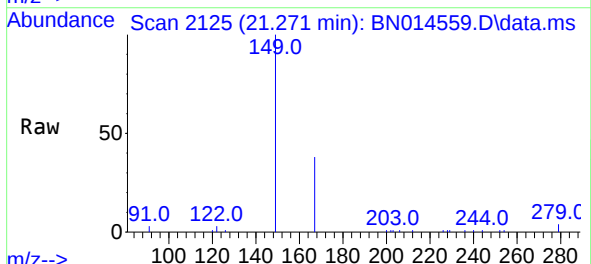
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-RW8-GW-658-660

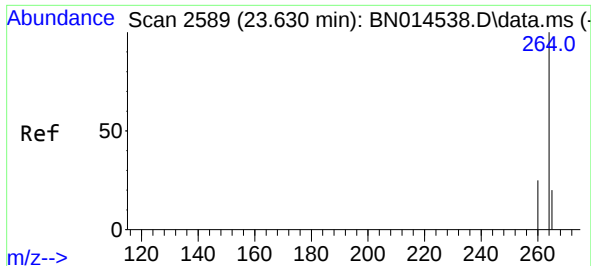
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 672   |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 45.3  | 23.8  | 35.6# |
| 229      | 41.0  | 15.6  | 23.4# |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 2.54 ng  
RT: 21.271 min Scan# 2125  
Delta R.T. -0.011 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

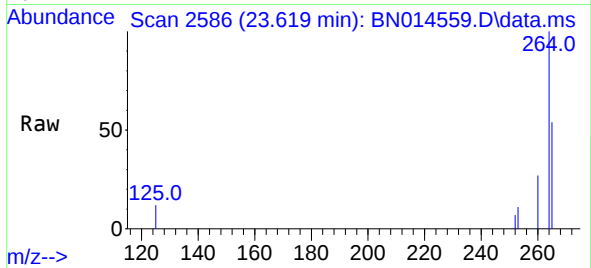
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 149   | Resp: | 16305 |
| Ion      | Ratio | Lower | Upper |
| 149      | 100   |       |       |
| 167      | 37.8  | 20.5  | 30.7# |
| 279      | 6.9   | 2.9   | 4.3#  |



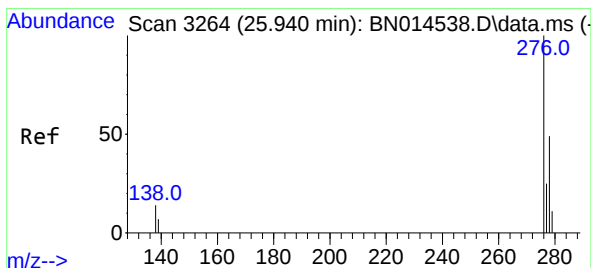
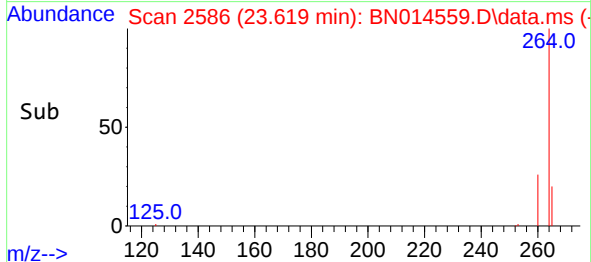
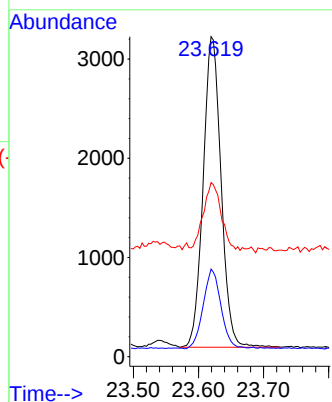


#35  
Perylene-d12  
Concen: 0.40 ng  
RT: 23.619 min Scan# 2586  
Delta R.T. -0.010 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-RW8-GW-658-660

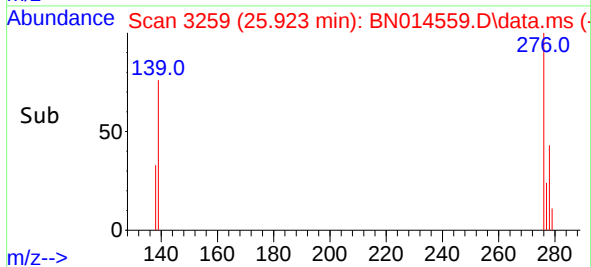
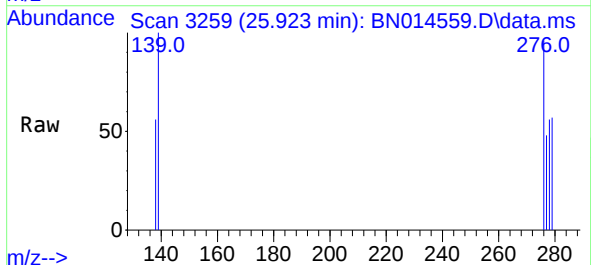
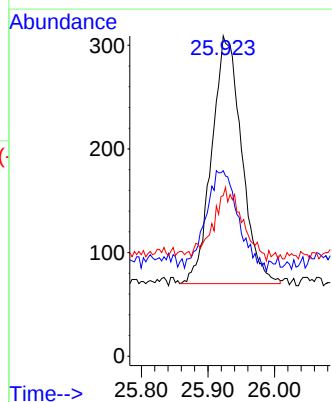


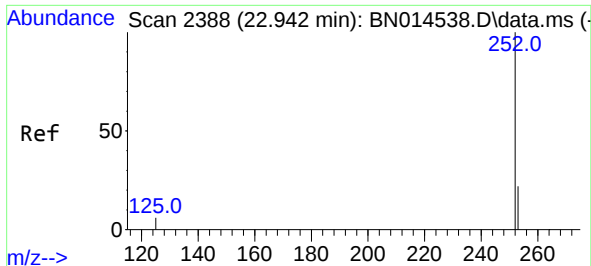
Tgt Ion:264 Resp: 5981  
Ion Ratio Lower Upper  
264 100  
260 27.3 19.5 29.3  
265 54.4 35.4 53.0#



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.03 ng  
RT: 25.923 min Scan# 3259  
Delta R.T. -0.017 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

Tgt Ion:276 Resp: 743  
Ion Ratio Lower Upper  
276 100  
138 44.8 18.8 28.2#  
277 27.9 19.8 29.8





#37

Benzo(b)fluoranthene

Concen: 0.03 ng

RT: 22.935 min Scan# 2386

Delta R.T. -0.007 min

Lab File: BN014559.D

Acq: 10 May 2021 16:11

Tgt Ion:252 Resp: 674

Ion Ratio Lower Upper

252 100

253 73.5 19.6 29.4#

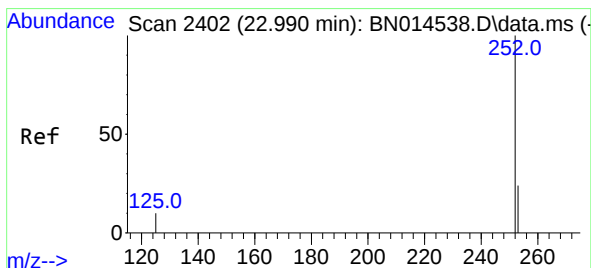
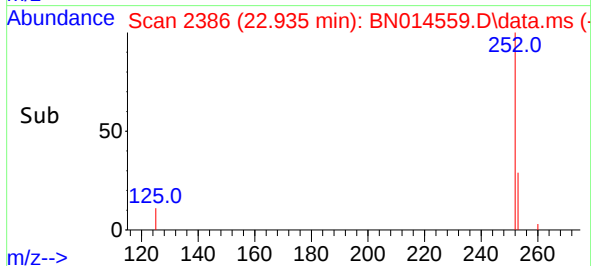
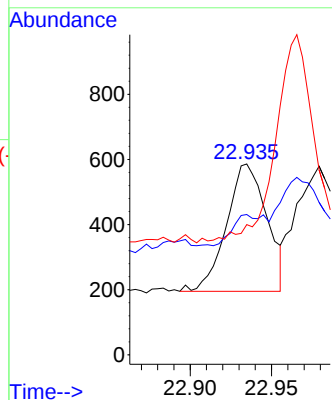
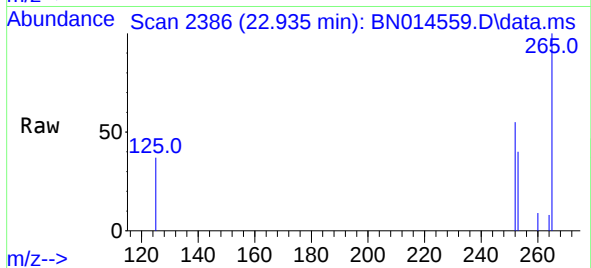
125 68.3 10.3 15.5#

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-RW8-GW-658-660



#38

Benzo(k)fluoranthene

Concen: 0.04 ng

RT: 22.979 min Scan# 2399

Delta R.T. -0.010 min

Lab File: BN014559.D

Acq: 10 May 2021 16:11

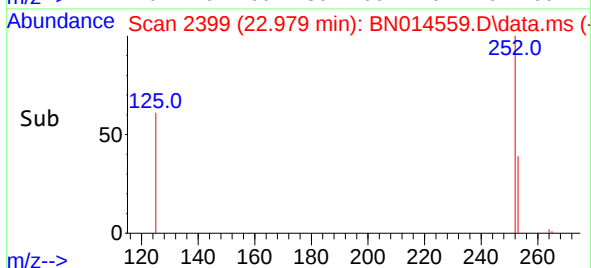
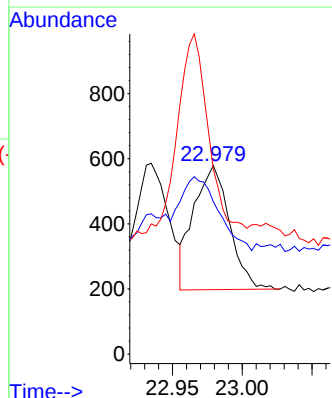
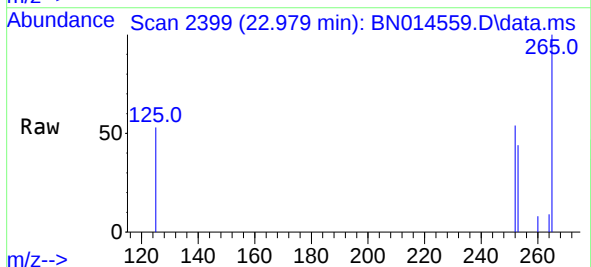
Tgt Ion:252 Resp: 680

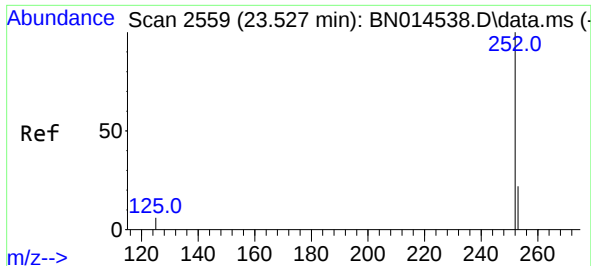
Ion Ratio Lower Upper

252 100

253 80.8 19.7 29.5#

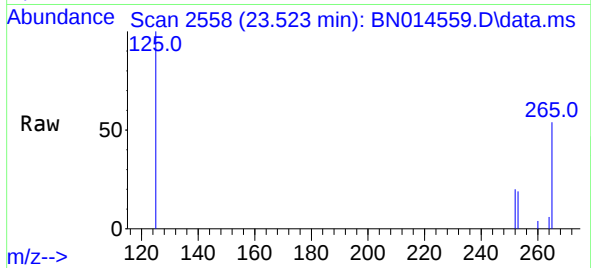
125 98.1 9.7 14.5#



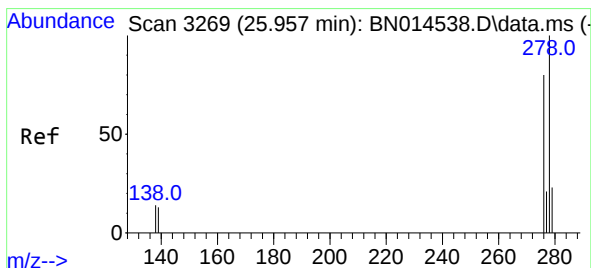
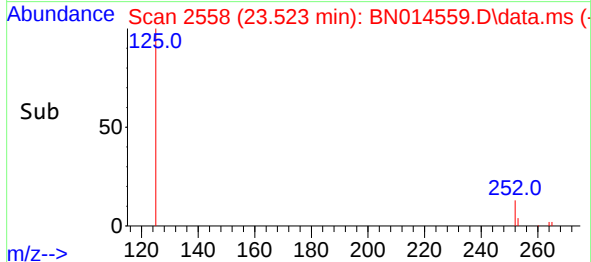
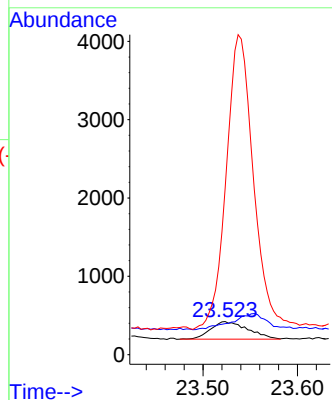


#39  
Benzo(a)pyrene  
Concen: 0.04 ng  
RT: 23.523 min Scan# 2558  
Delta R.T. -0.003 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-RW8-GW-658-660

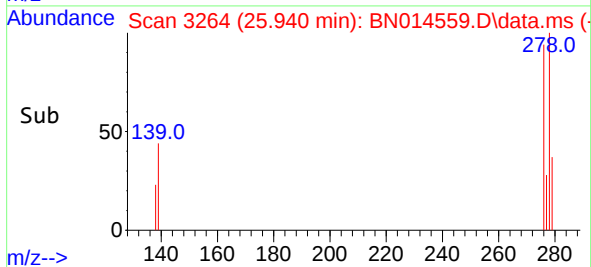
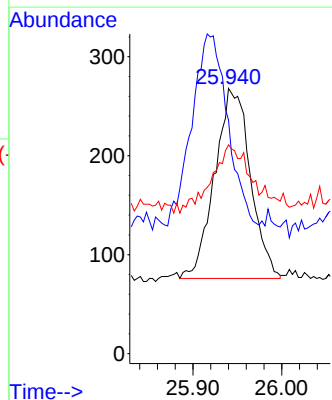
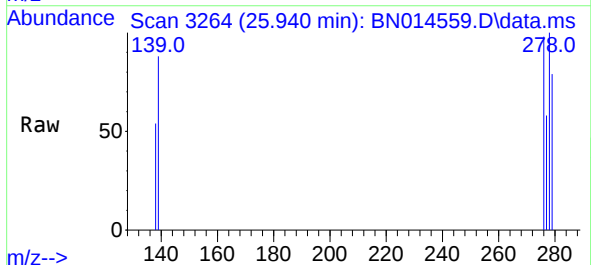


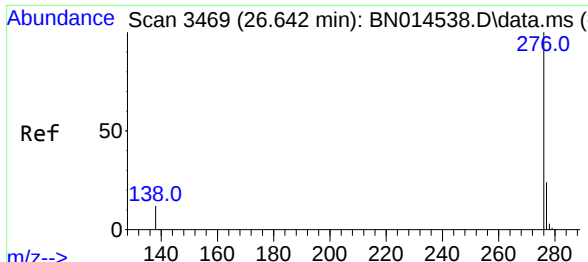
Tgt Ion:252 Resp: 617  
Ion Ratio Lower Upper  
252 100  
253 93.6 21.8 32.6#  
125 504.0 14.9 22.3#



#40  
Dibenzo(a,h)anthracene  
Concen: 0.03 ng  
RT: 25.940 min Scan# 3264  
Delta R.T. -0.017 min  
Lab File: BN014559.D  
Acq: 10 May 2021 16:11

Tgt Ion:278 Resp: 536  
Ion Ratio Lower Upper  
278 100  
139 88.1 13.9 20.9#  
279 78.7 20.7 31.1#





#41  
 Benzo(g,h,i)perylene  
 Concen: 0.03 ng  
 RT: 26.628 min Scan# 3465  
 Delta R.T. -0.014 min  
 Lab File: BN014559.D  
 Acq: 10 May 2021 16:11

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BP-VPB-RW8-GW-658-660

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 651   |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 49.8  | 19.6  | 29.4# |
| 138      | 37.5  | 17.5  | 26.3# |

