

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN032921\  
 Data File : BN014131.D  
 Acq On : 29 Mar 2021 17:38  
 Operator : CG/JU  
 Sample : M1557-05DL 50X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PT-BN-WPDL

Quant Time: Mar 29 18:08:16 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-SIM-BN032621.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 29 12:24:58 2021  
 Response via : Initial Calibration

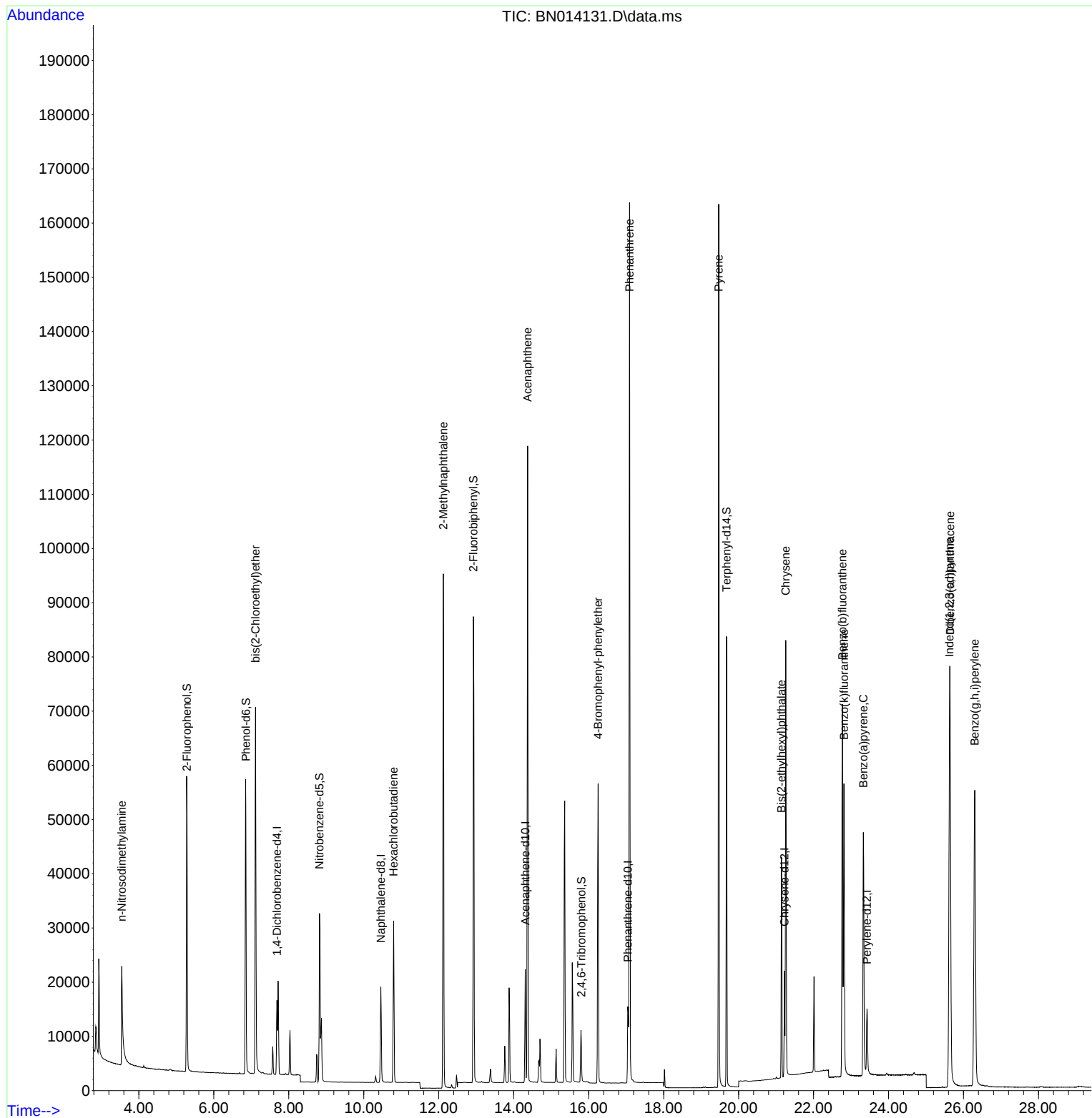
| Compound                      | R.T.   | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|------|-------|----------|
| -----                         |        |      |          |      |       |          |
| Internal Standards            |        |      |          |      |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.684  | 152  | 6323     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.454 | 136  | 22699    | 0.40 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 14.308 | 164  | 11473    | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.043 | 188  | 21329    | 0.40 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.226 | 240  | 17542    | 0.40 | ng    | # 0.00   |
| 36) Perylene-d12              | 23.425 | 264  | 16144    | 0.40 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |      |       |          |
| 4) 2-Fluorophenol             | 5.284  | 112  | 41753    | 2.57 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.855  | 99   | 50006    | 2.43 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.819  | 82   | 26634    | 1.73 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 0.000  | 152  | 0d       | 0.00 | ng    |          |
| 14) 2,4,6-Tribromophenol      | 15.805 | 330  | 7546     | 2.05 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.925 | 172  | 82231    | 1.91 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 0.000  | 212  | 0d       | 0.00 | ng    |          |
| 31) Terphenyl-d14             | 19.677 | 244  | 84300    | 2.09 | ng    | 0.00     |
| Target Compounds              |        |      |          |      |       |          |
|                               |        |      |          |      |       | Qvalue   |
| 3) n-Nitrosodimethylamine     | 3.545  | 42   | 17666    | 2.82 | ng    | 94       |
| 6) bis(2-Chloroethyl)ether    | 7.112  | 93   | 49945    | 3.05 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.796 | 225  | 23416    | 2.28 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.124 | 142  | 68739    | 1.87 | ng    | 98       |
| 17) Acenaphthene              | 14.372 | 154  | 56061    | 1.77 | ng    | 99       |
| 21) 4-Bromophenyl-phenylether | 16.252 | 248  | 28116    | 2.56 | ng    | 92       |
| 25) Phenanthrene              | 17.091 | 178  | 164586   | 2.87 | ng    | 100      |
| 30) Pyrene                    | 19.469 | 202  | 145718   | 2.55 | ng    | 100      |
| 33) Chrysene                  | 21.258 | 228  | 66990    | 1.25 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.141 | 149  | 38511    | 2.60 | ng    | 100      |
| 35) Indeno(1,2,3-cd)pyrene    | 25.626 | 276  | 81658    | 1.46 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.768 | 252  | 85516    | 1.50 | ng    | 95       |
| 38) Benzo(k)fluoranthene      | 22.812 | 252  | 72209    | 1.30 | ng    | 95       |
| 39) Benzo(a)pyrene            | 23.329 | 252  | 66566    | 1.36 | ng    | 94       |
| 40) Dibenzo(a,h)anthracene    | 25.639 | 278  | 84123    | 1.67 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 26.300 | 276  | 112861   | 2.11 | ng    | 98       |
| -----                         |        |      |          |      |       |          |

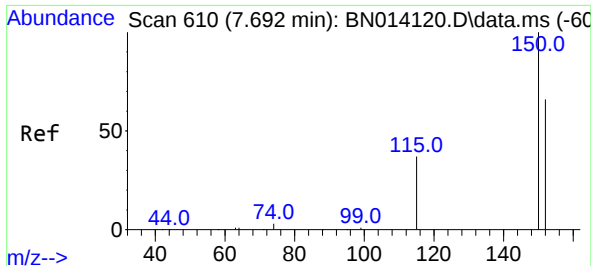
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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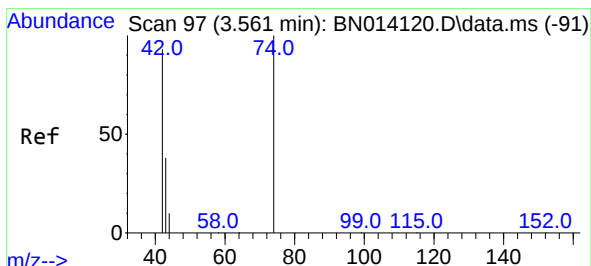
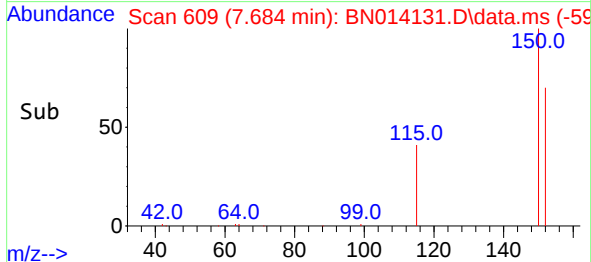
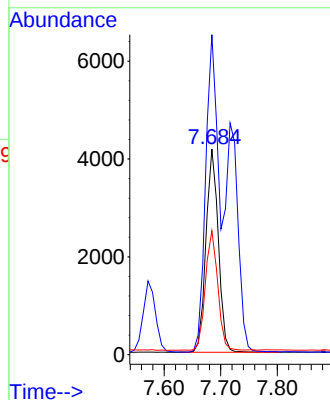
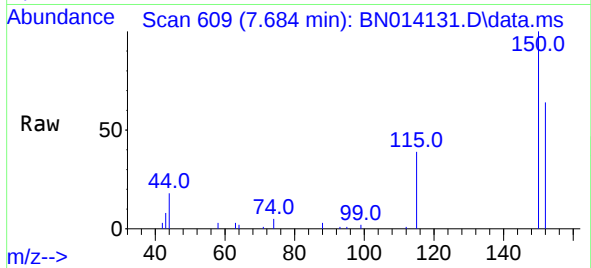




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.40 ng  
RT: 7.684 min Scan# 609  
Delta R.T. 0.000 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

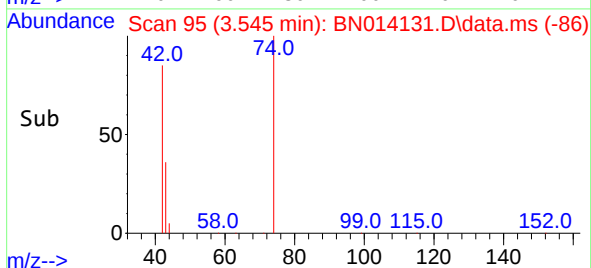
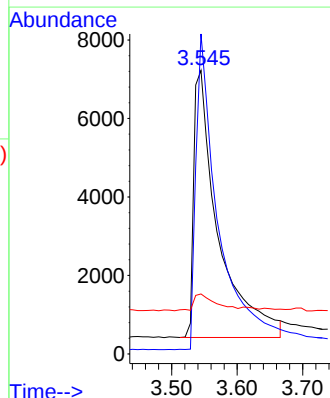
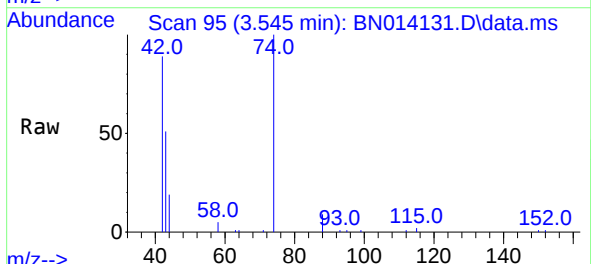
Instrument :  
BNA\_N  
ClientSampleId :  
PT-BN-WPDL

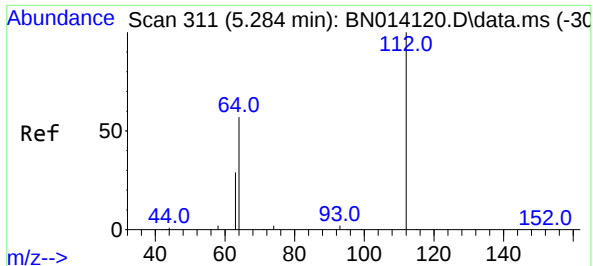
Tgt Ion:152 Resp: 6323  
Ion Ratio Lower Upper  
152 100  
150 155.6 121.2 181.8  
115 60.3 46.2 69.2



#3  
n-Nitrosodimethylamine  
Concen: 2.82 ng  
RT: 3.545 min Scan# 95  
Delta R.T. -0.024 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

Tgt Ion: 42 Resp: 17666  
Ion Ratio Lower Upper  
42 100  
74 111.9 94.6 141.8  
44 5.6 4.2 6.2

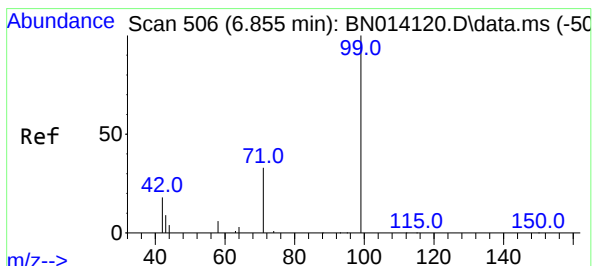
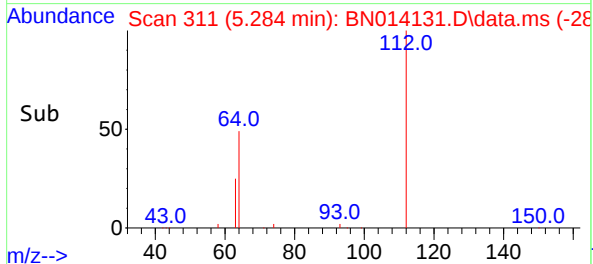
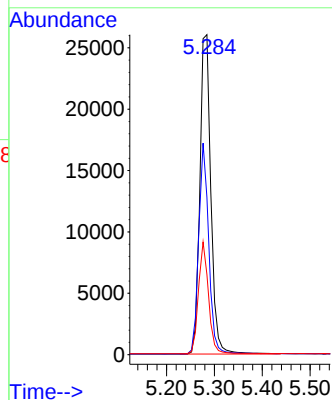
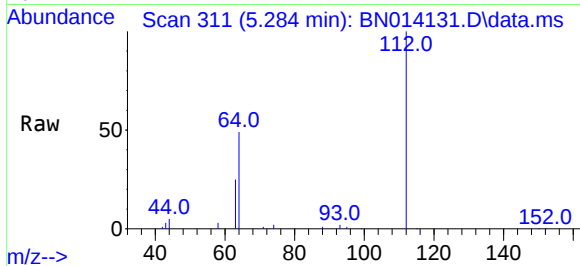




#4  
2-Fluorophenol  
Concen: 2.57 ng  
RT: 5.284 min Scan# 311  
Delta R.T. 0.000 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

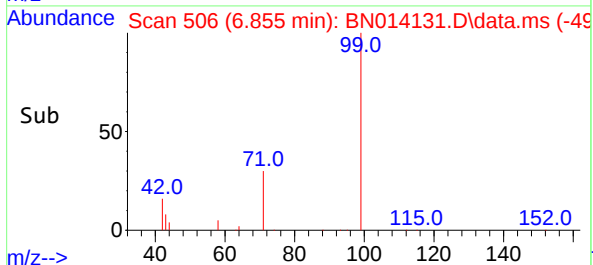
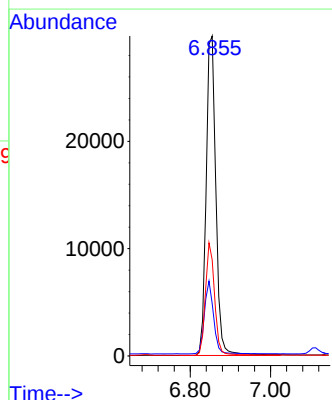
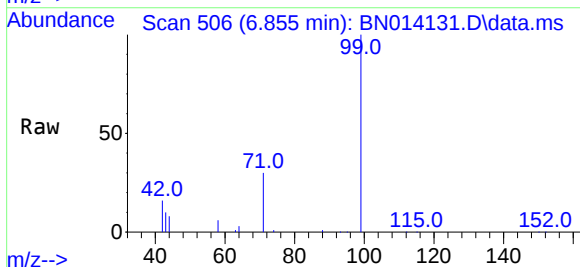
Instrument :  
BNA\_N  
ClientSampleId :  
PT-BN-WPDL

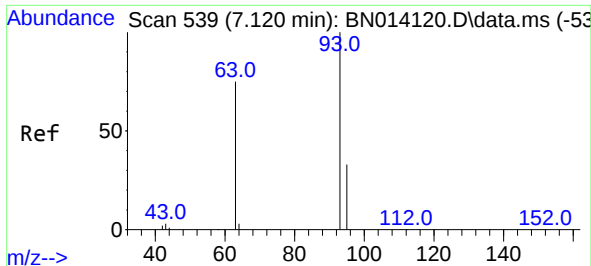
Tgt Ion:112 Resp: 41753  
Ion Ratio Lower Upper  
112 100  
64 60.6 48.3 72.5  
63 32.1 25.4 38.0



#5  
Phenol-d6  
Concen: 2.43 ng  
RT: 6.855 min Scan# 506  
Delta R.T. 0.000 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

Tgt Ion: 99 Resp: 50006  
Ion Ratio Lower Upper  
99 100  
42 21.5 18.2 27.4  
71 33.6 26.7 40.1

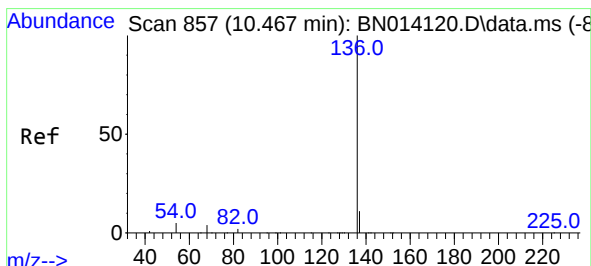
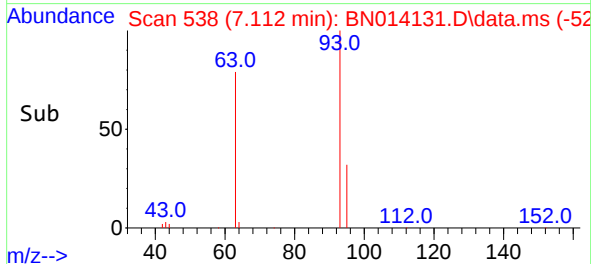
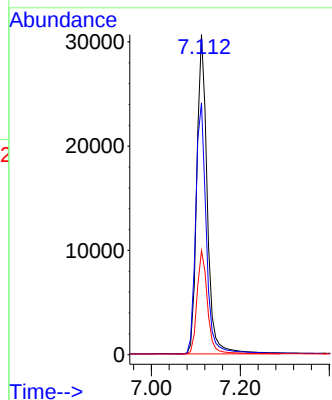
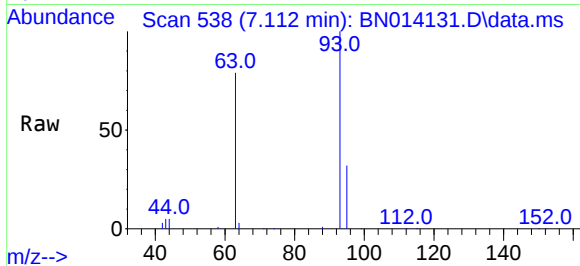




#6  
bis(2-Chloroethyl)ether  
Concen: 3.05 ng  
RT: 7.112 min Scan# 538  
Delta R.T. -0.008 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

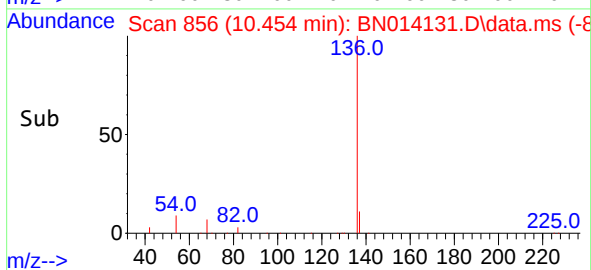
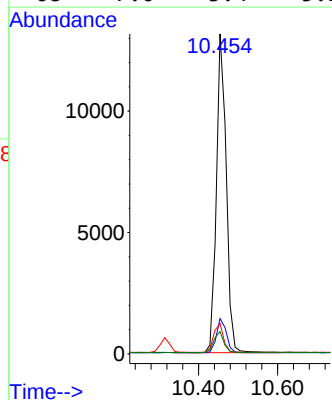
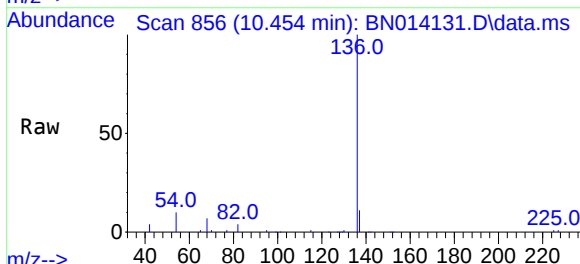
Instrument :  
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ClientSampleId :  
PT-BN-WPDL

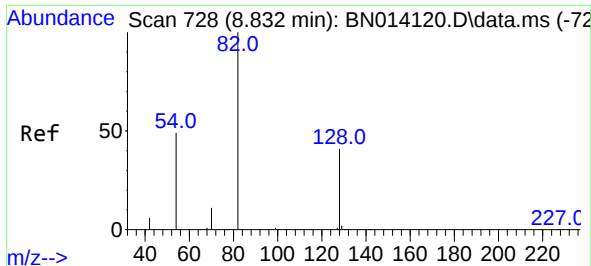
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 49945 |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 80.2  | 65.1  | 97.7  |
| 95       | 32.5  | 26.6  | 39.8  |



#7  
Naphthalene-d8  
Concen: 0.40 ng  
RT: 10.454 min Scan# 856  
Delta R.T. 0.000 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 22699 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.1  | 9.1   | 13.7  |
| 54       | 9.6   | 4.3   | 6.5#  |
| 68       | 7.0   | 3.4   | 5.2#  |

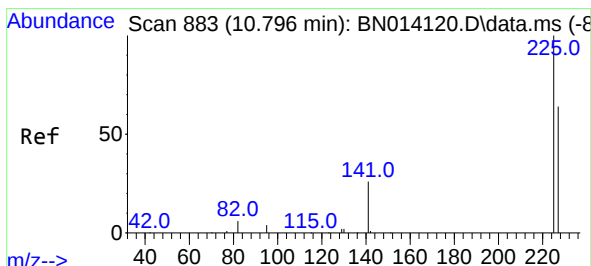
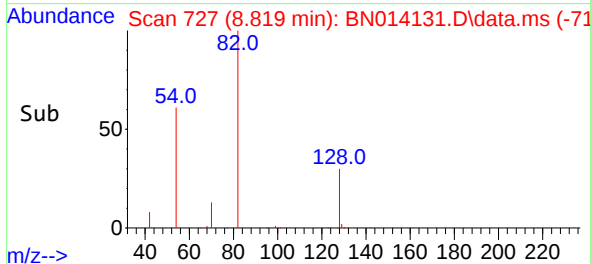
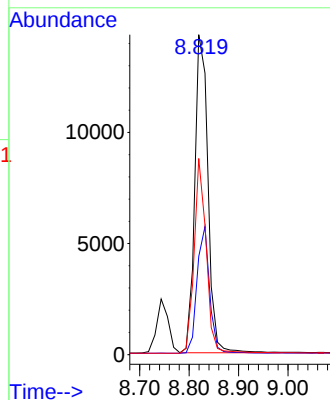
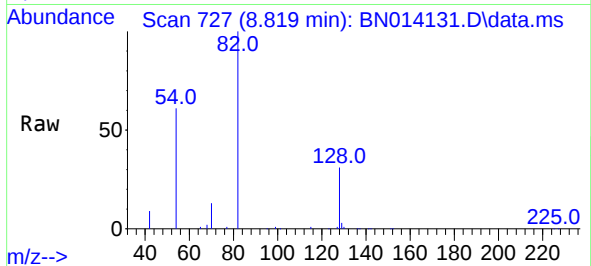




#8  
Nitrobenzene-d5  
Concen: 1.73 ng  
RT: 8.819 min Scan# 727  
Delta R.T. -0.013 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

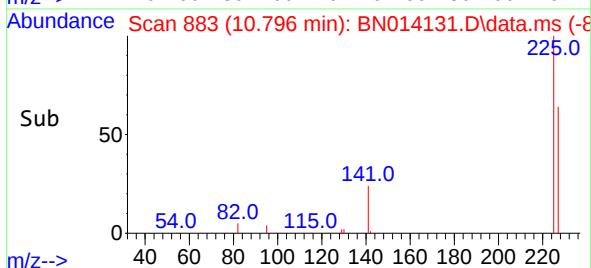
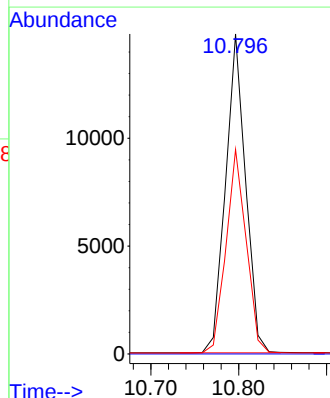
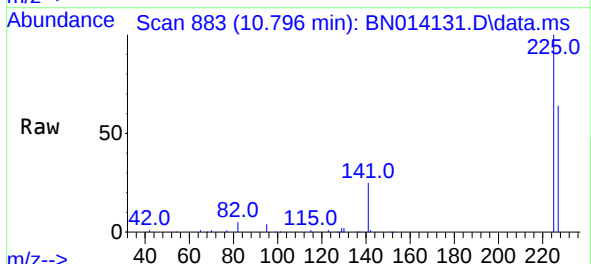
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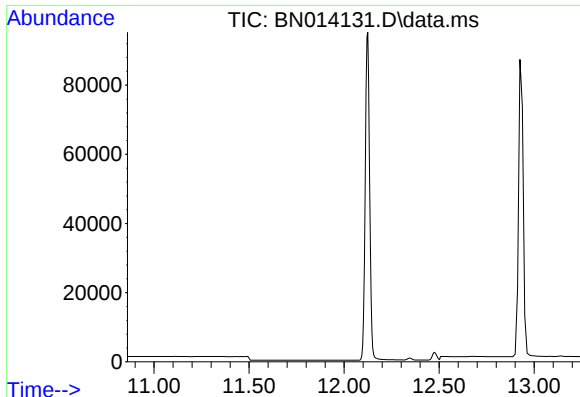
Tgt Ion: 82 Resp: 26634  
Ion Ratio Lower Upper  
82 100  
128 30.7 33.5 50.3#  
54 61.3 40.3 60.5#



#10  
Hexachlorobutadiene  
Concen: 2.28 ng  
RT: 10.796 min Scan# 883  
Delta R.T. 0.000 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

Tgt Ion: 225 Resp: 23416  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.1 51.6 77.4



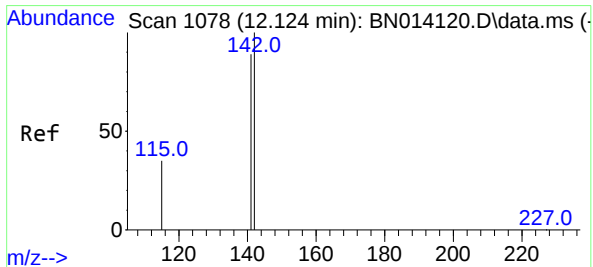
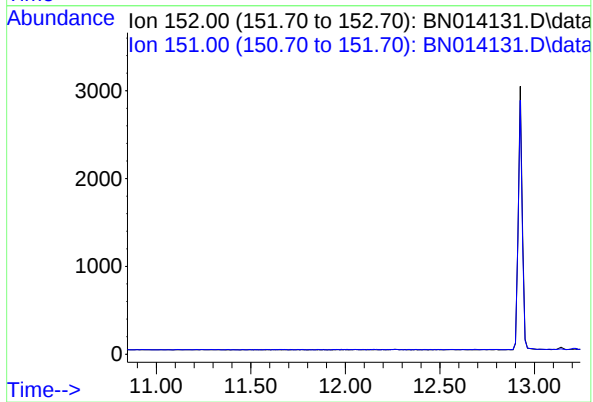


#11  
2-Methylnaphthalene-d10  
Concen: 0.00 ng  
Expected RT: 12.05 min

Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

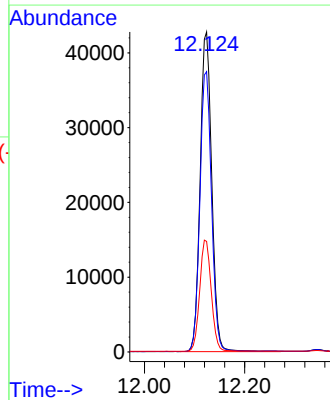
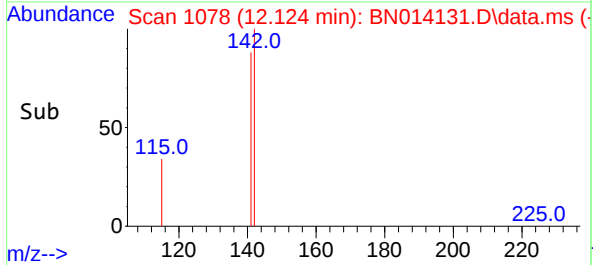
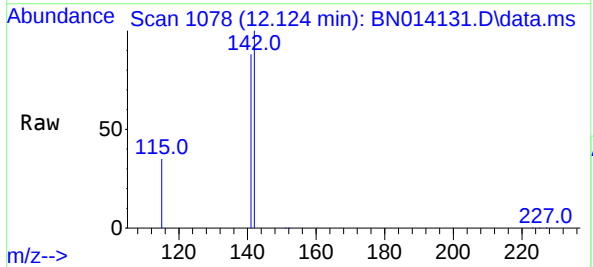
Tgt Ion: 152  
Sig Exp Ratio  
152 100  
151 20.1

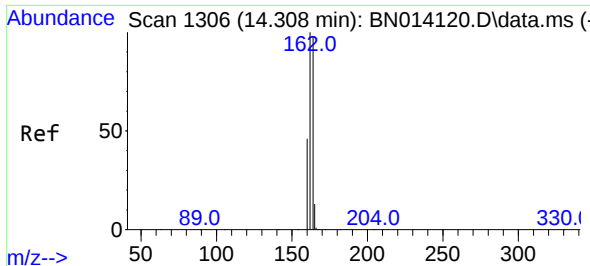
Instrument :  
BNA\_N  
ClientSampleId :  
PT-BN-WPDL



#12  
2-Methylnaphthalene  
Concen: 1.87 ng  
RT: 12.124 min Scan# 1078  
Delta R.T. 0.000 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

Tgt Ion: 142 Resp: 68739  
Ion Ratio Lower Upper  
142 100  
141 87.6 71.1 106.7  
115 34.5 29.0 43.6



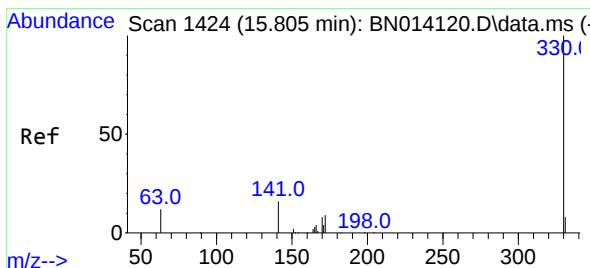
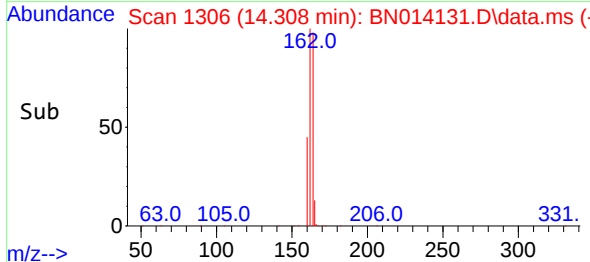
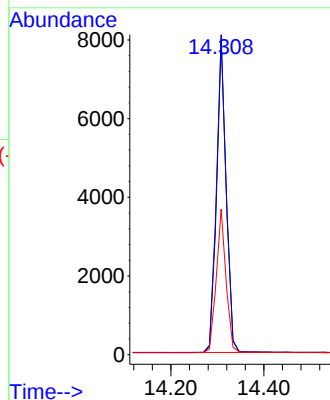
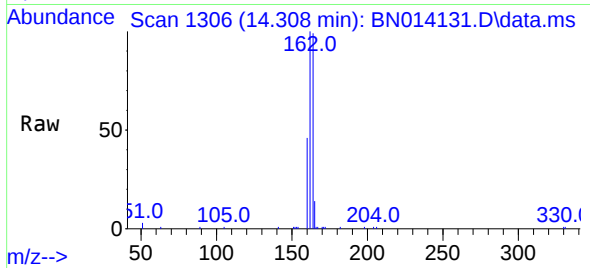


#13  
Acenaphthene-d10  
Concen: 0.40 ng  
RT: 14.308 min Scan# 1306  
Delta R.T. 0.000 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

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ClientSampleId :  
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Tgt Ion:164 Resp: 11473  

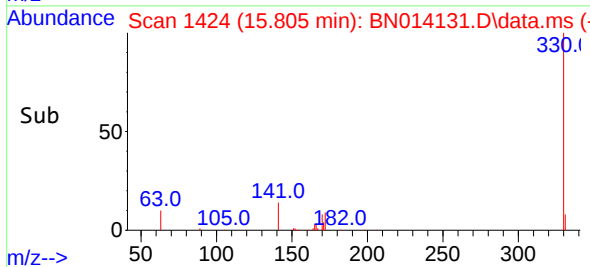
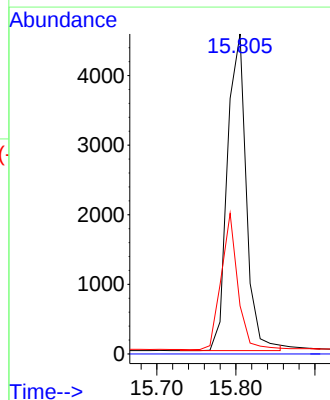
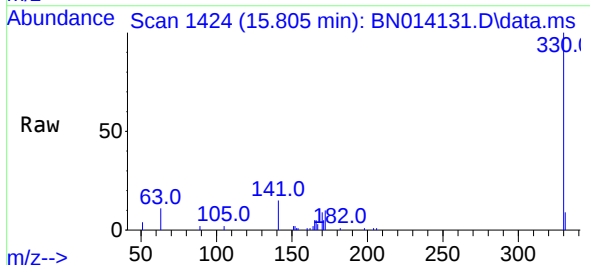
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 101.5 | 81.4  | 122.2 |
| 160 | 46.2  | 37.5  | 56.3  |

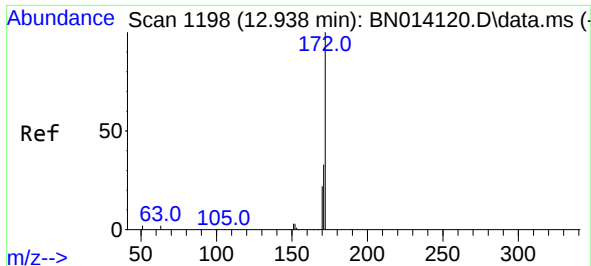


#14  
2,4,6-Tribromophenol  
Concen: 2.05 ng  
RT: 15.805 min Scan# 1424  
Delta R.T. 0.000 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

Tgt Ion:330 Resp: 7546  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 0.0   | 0.0   | 0.0   |
| 141 | 38.2  | 31.2  | 46.8  |

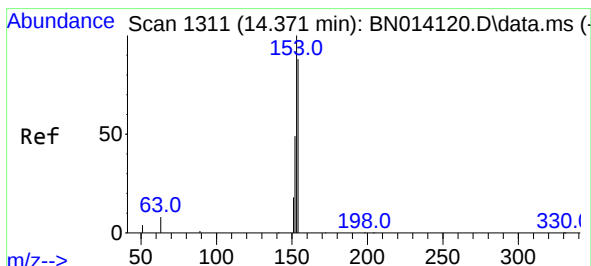
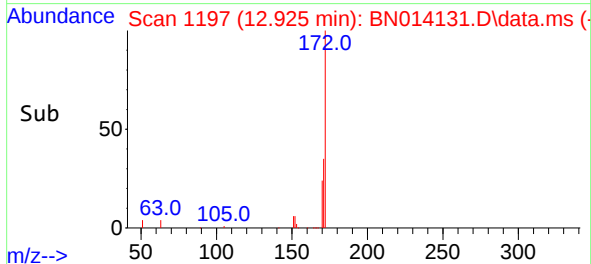
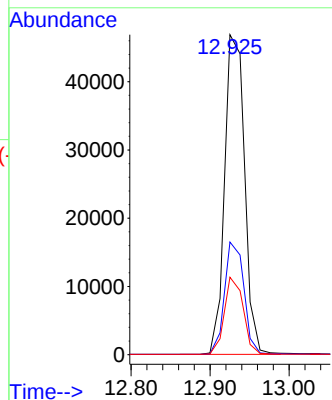
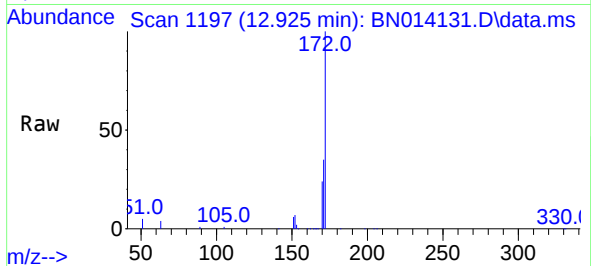




#15  
2-Fluorobiphenyl  
Concen: 1.91 ng  
RT: 12.925 min Scan# 1197  
Delta R.T. -0.013 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

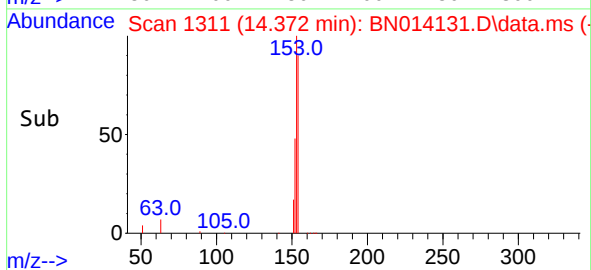
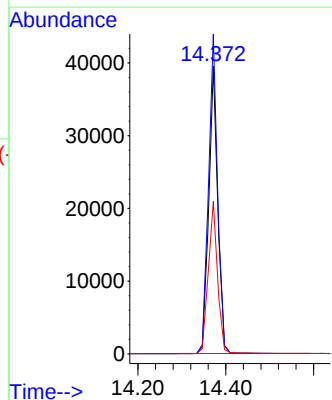
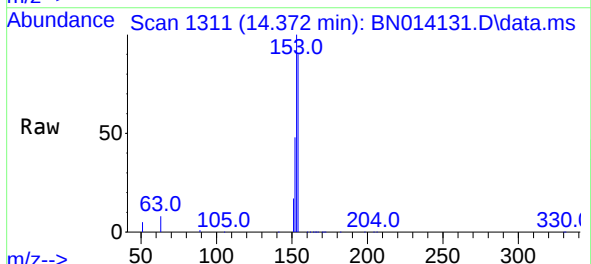
Instrument :  
BNA\_N  
ClientSampleId :  
PT-BN-WPDL

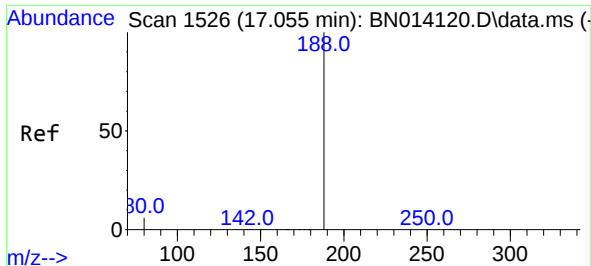
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 82231 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 35.2  | 26.9  | 40.3  |
| 170       | 24.2  | 17.8  | 26.8  |



#17  
Acenaphthene  
Concen: 1.77 ng  
RT: 14.372 min Scan# 1311  
Delta R.T. 0.000 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 154   | Resp: | 56061 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 112.7 | 89.0  | 133.4 |
| 152       | 54.9  | 43.1  | 64.7  |

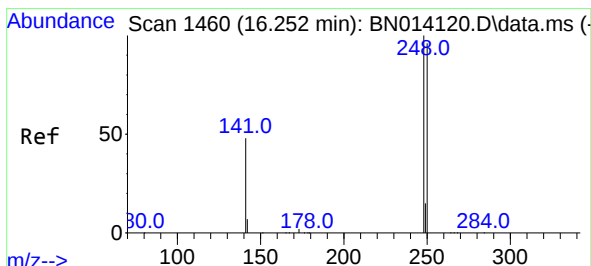
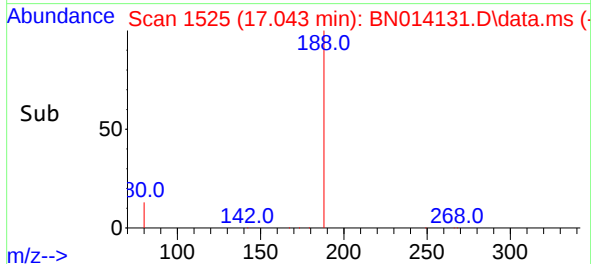
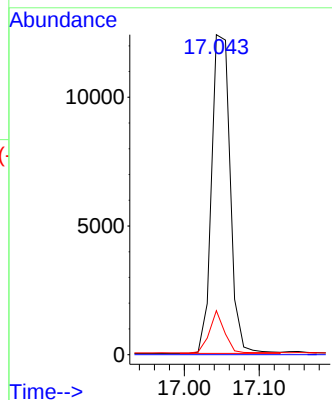
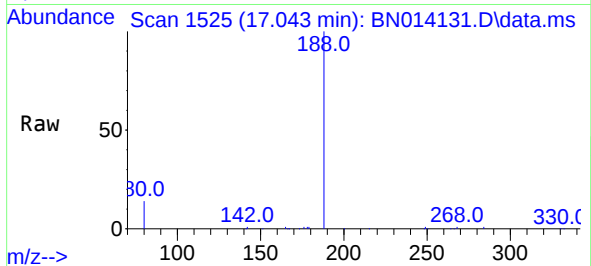




#19  
Phenanthrene-d10  
Concen: 0.40 ng  
RT: 17.043 min Scan# 1525  
Delta R.T. 0.000 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

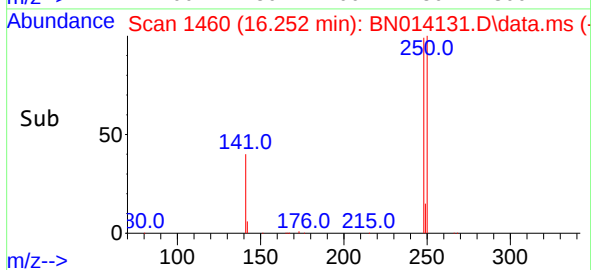
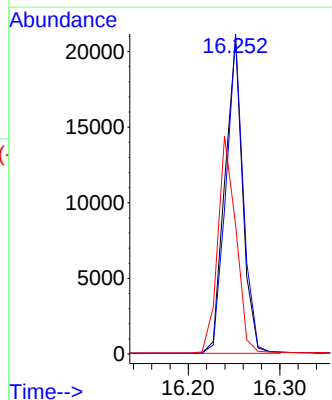
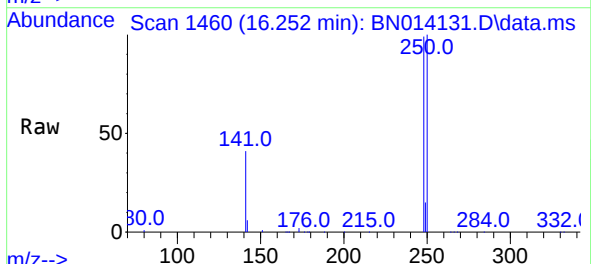
Instrument :  
BNA\_N  
ClientSampleId :  
PT-BN-WPDL

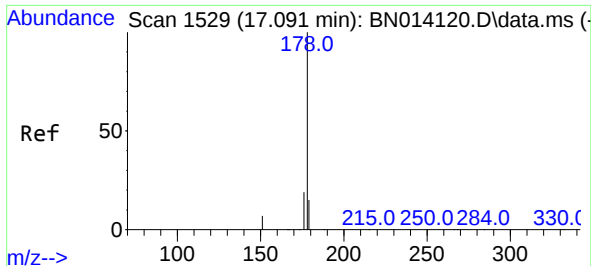
Tgt Ion:188 Resp: 21329  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 13.7 5.2 7.8#



#21  
4-Bromophenyl-phenylether  
Concen: 2.56 ng  
RT: 16.252 min Scan# 1460  
Delta R.T. 0.000 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

Tgt Ion:248 Resp: 28116  
Ion Ratio Lower Upper  
248 100  
250 101.4 77.0 115.6  
141 41.1 39.7 59.5

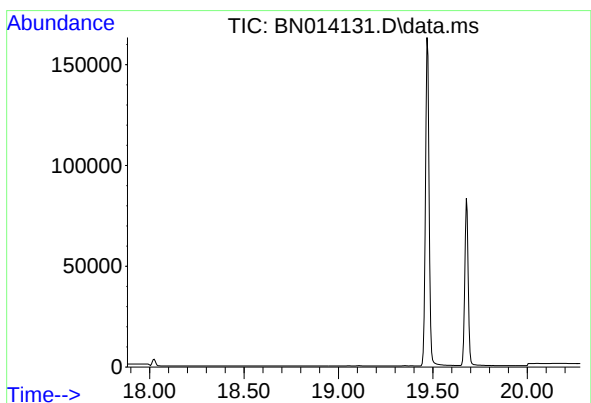
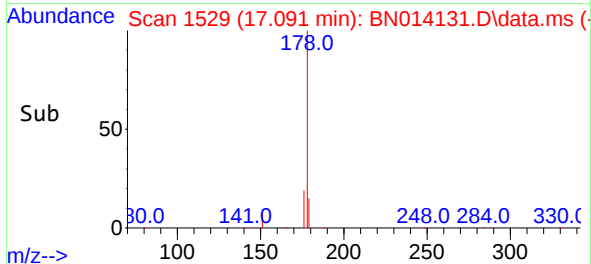
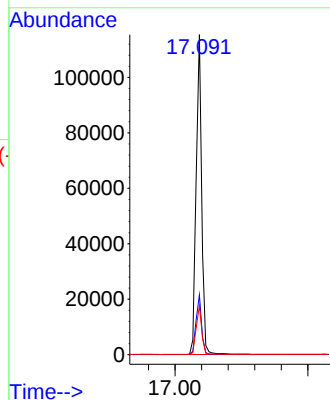
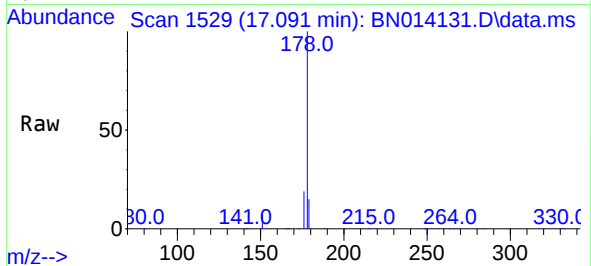




#25  
Phenanthrene  
Concen: 2.87 ng  
RT: 17.091 min Scan# 1529  
Delta R.T. 0.000 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

Instrument :  
BNA\_N  
ClientSampleId :  
PT-BN-WPDL

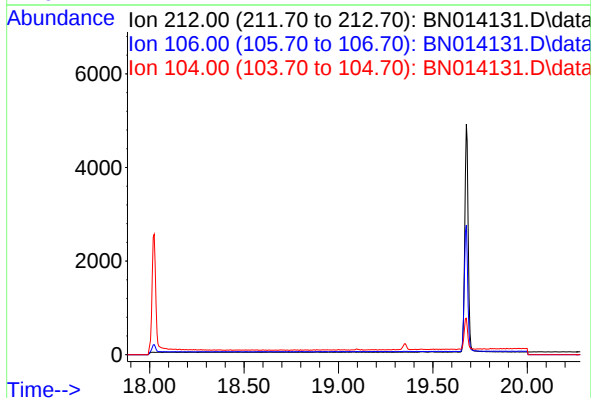
Tgt Ion:178 Resp: 164586  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.0 22.6  
179 15.3 12.4 18.6

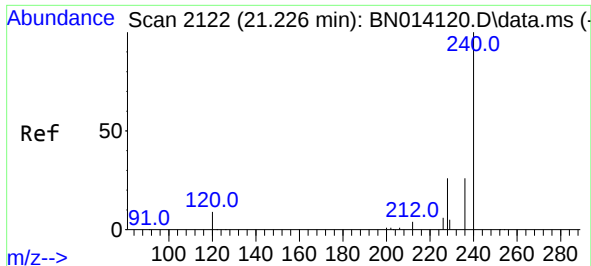


#27  
Fluoranthene-d10  
Concen: 0.00 ng  
Expected RT: 19.08 min

Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

Tgt Ion: 212  
Sig Exp Ratio  
212 100  
106 12.6  
104 6.9

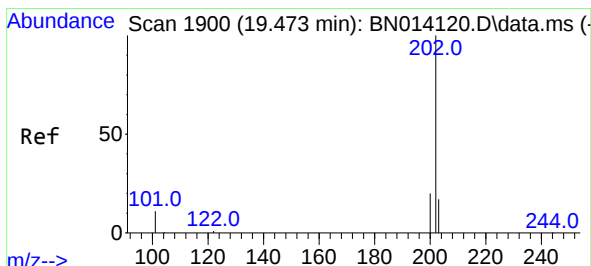
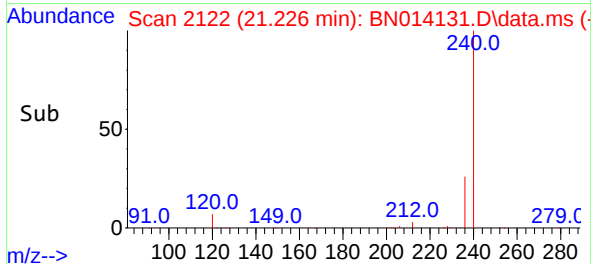
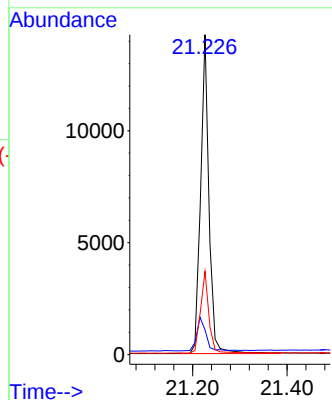
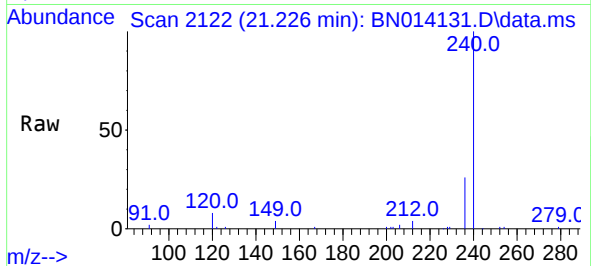




#29  
Chrysene-d12  
Concen: 0.40 ng  
RT: 21.226 min Scan# 2122  
Delta R.T. 0.000 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

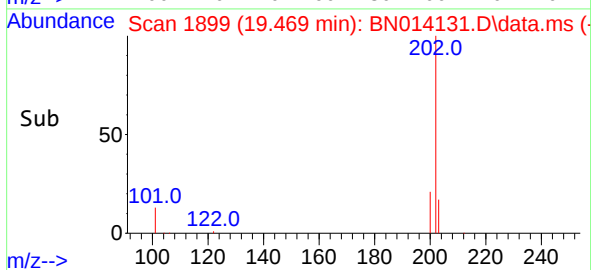
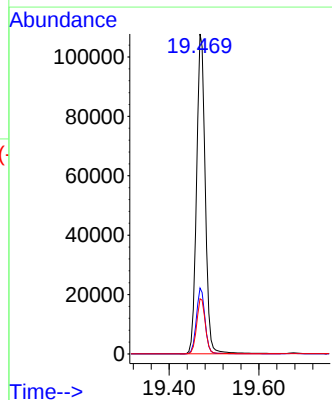
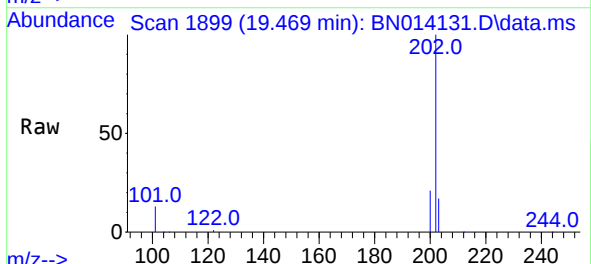
Instrument :  
BNA\_N  
ClientSampleId :  
PT-BN-WPDL

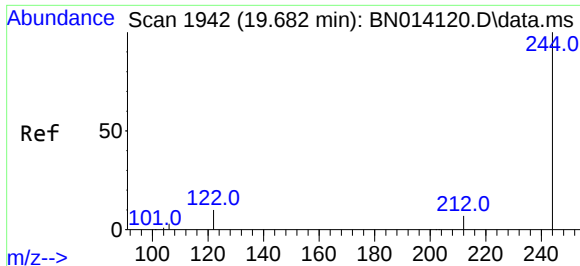
Tgt Ion:240 Resp: 17542  
Ion Ratio Lower Upper  
240 100  
120 7.8 8.4 12.6#  
236 26.0 21.0 31.6



#30  
Pyrene  
Concen: 2.55 ng  
RT: 19.469 min Scan# 1899  
Delta R.T. -0.005 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

Tgt Ion:202 Resp: 145718  
Ion Ratio Lower Upper  
202 100  
200 20.4 16.2 24.4  
203 17.2 13.9 20.9

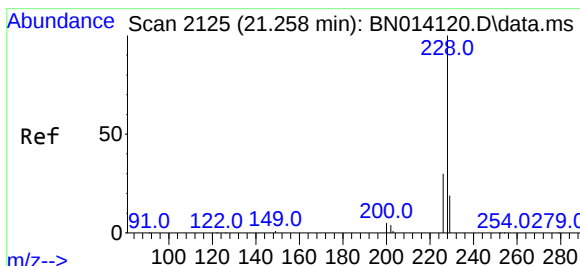
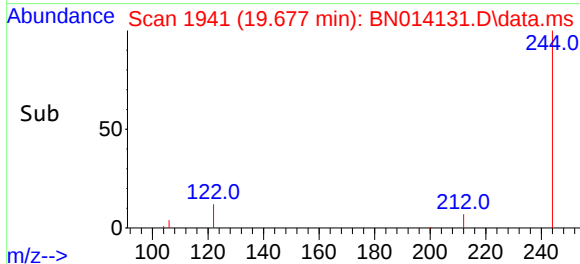
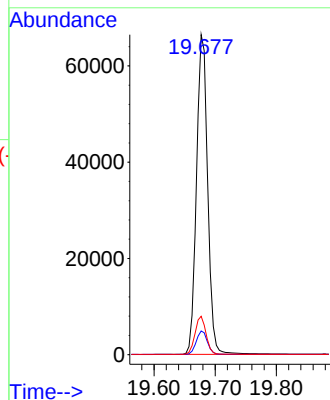
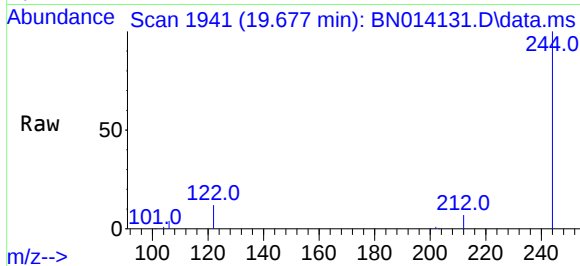




#31  
Terphenyl-d14  
Concen: 2.09 ng  
RT: 19.677 min Scan# 1941  
Delta R.T. 0.000 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

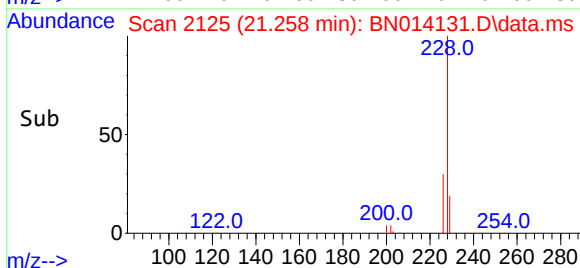
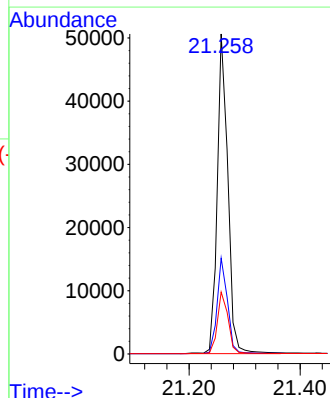
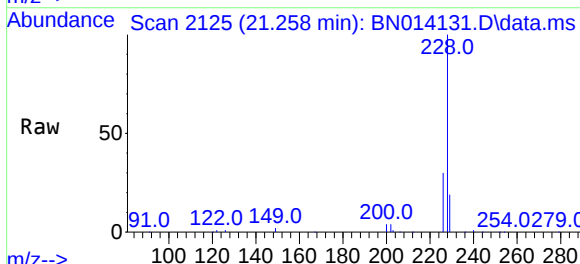
Instrument :  
BNA\_N  
ClientSampleId :  
PT-BN-WPDL

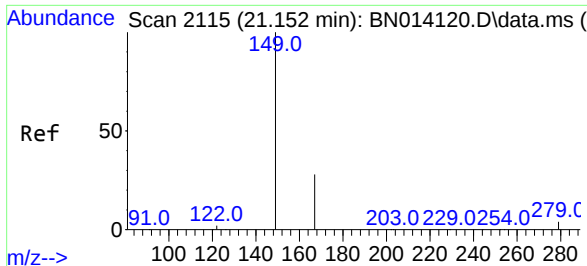
Tgt Ion:244 Resp: 84300  
Ion Ratio Lower Upper  
244 100  
212 7.4 6.0 9.0  
122 12.0 8.6 13.0



#33  
Chrysene  
Concen: 1.25 ng  
RT: 21.258 min Scan# 2125  
Delta R.T. 0.000 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

Tgt Ion:228 Resp: 66990  
Ion Ratio Lower Upper  
228 100  
226 29.9 24.4 36.6  
229 19.4 15.5 23.3

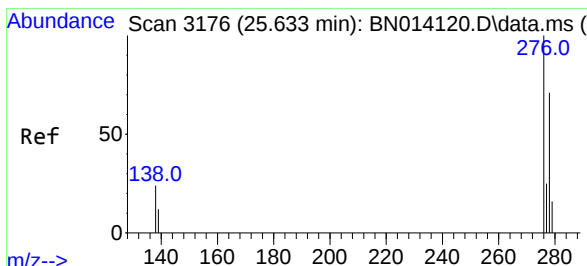
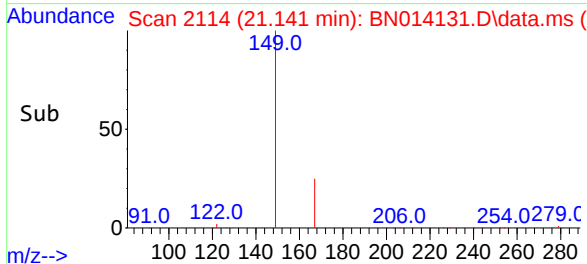
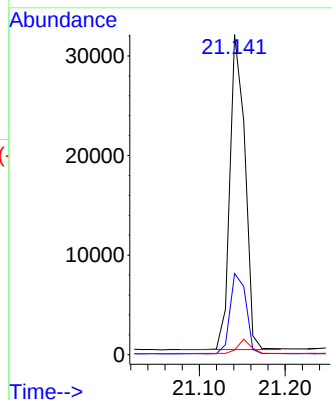
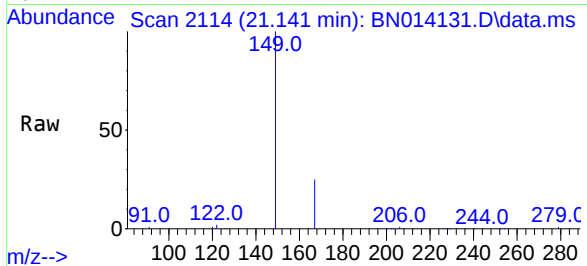




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 2.60 ng  
RT: 21.141 min Scan# 2114  
Delta R.T. 0.000 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

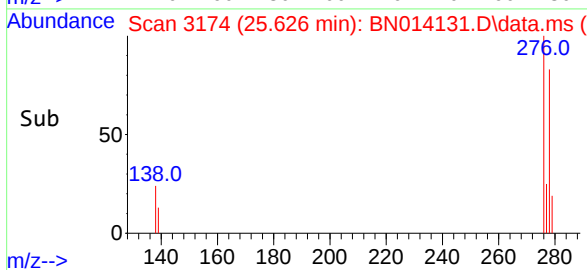
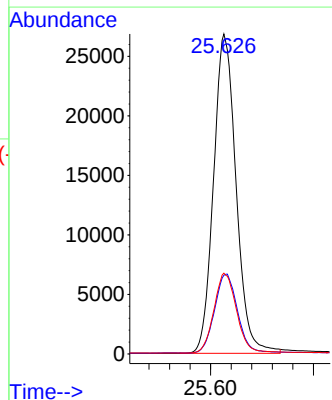
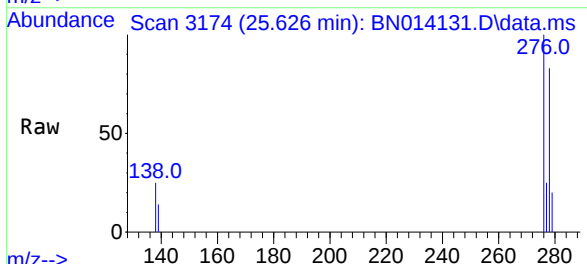
Instrument :  
BNA\_N  
ClientSampleId :  
PT-BN-WPDL

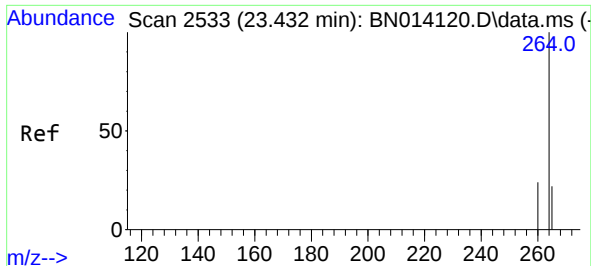
Tgt Ion:149 Resp: 38511  
Ion Ratio Lower Upper  
149 100  
167 26.9 21.4 32.2  
279 4.0 3.5 5.3



#35  
Indeno(1,2,3-cd)pyrene  
Concen: 1.46 ng  
RT: 25.626 min Scan# 3174  
Delta R.T. -0.003 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

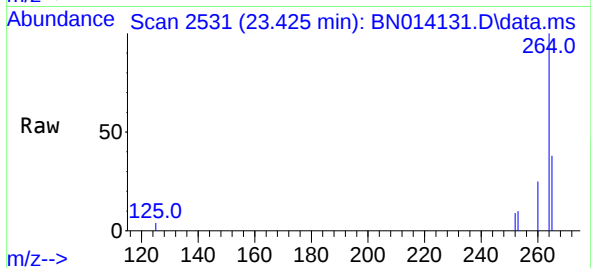
Tgt Ion:276 Resp: 81658  
Ion Ratio Lower Upper  
276 100  
138 25.3 19.4 29.2  
277 25.1 19.8 29.6



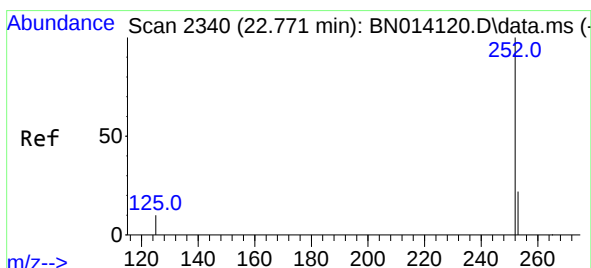
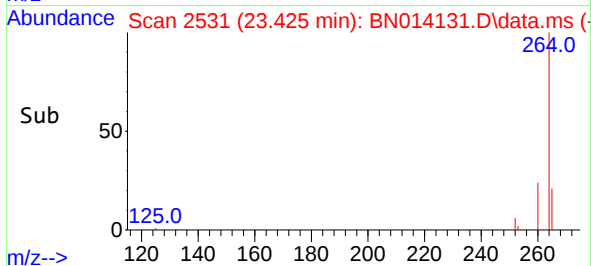
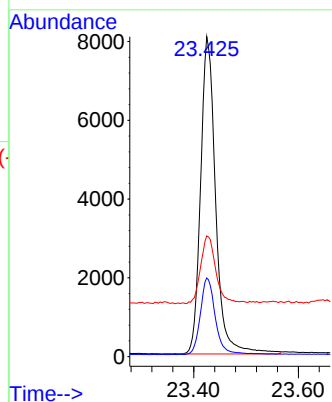


#36  
Perylene-d12  
Concen: 0.40 ng  
RT: 23.425 min Scan# 2531  
Delta R.T. -0.003 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

Instrument :  
BNA\_N  
ClientSampleId :  
PT-BN-WPDL

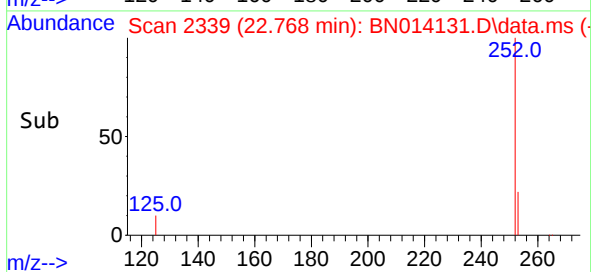
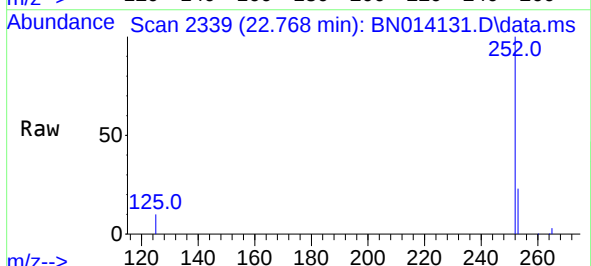
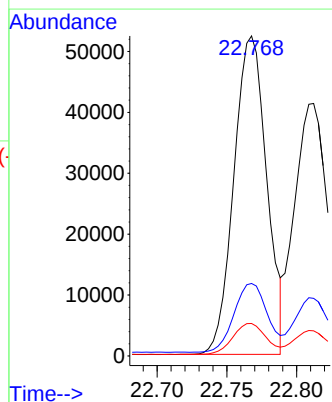


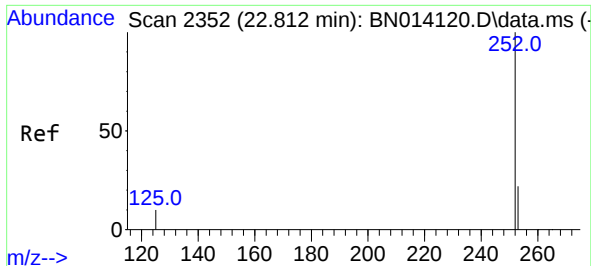
Tgt Ion:264 Resp: 16144  
Ion Ratio Lower Upper  
264 100  
260 24.6 19.8 29.8  
265 37.7 30.7 46.1



#37  
Benzo(b)fluoranthene  
Concen: 1.50 ng  
RT: 22.768 min Scan# 2339  
Delta R.T. 0.000 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

Tgt Ion:252 Resp: 85516  
Ion Ratio Lower Upper  
252 100  
253 22.6 20.6 30.8  
125 10.2 9.4 14.2

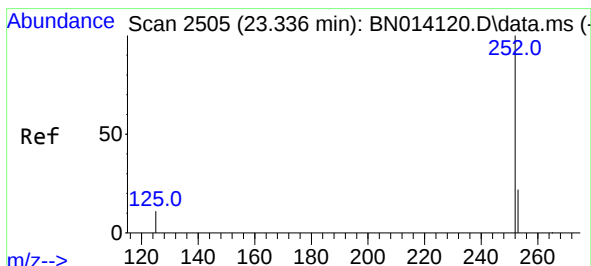
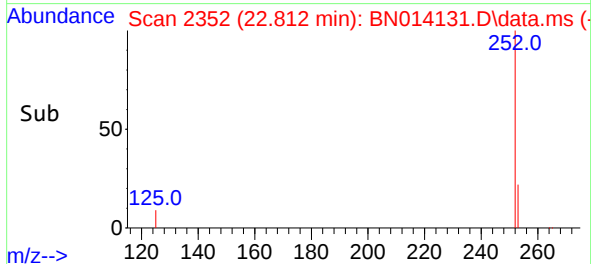
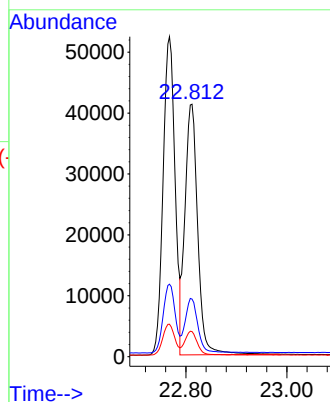
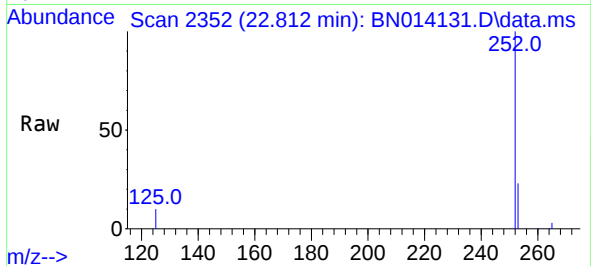




#38  
Benzo(k)fluoranthene  
Concen: 1.30 ng  
RT: 22.812 min Scan# 2352  
Delta R.T. 0.004 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

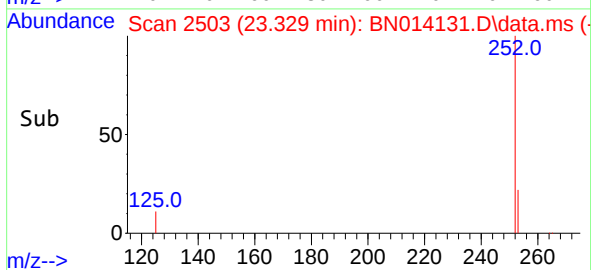
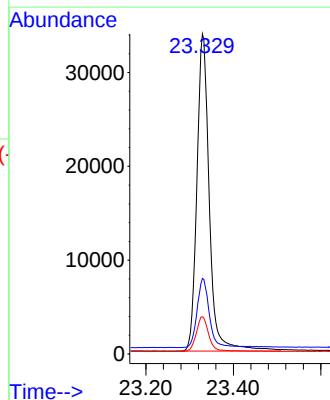
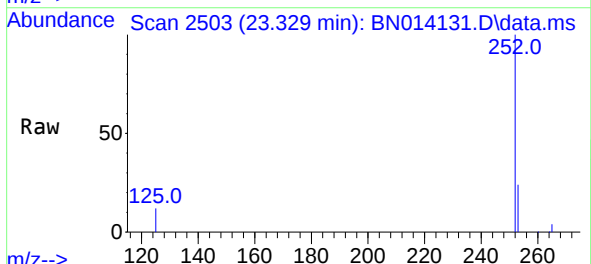
Instrument :  
BNA\_N  
ClientSampleId :  
PT-BN-WPDL

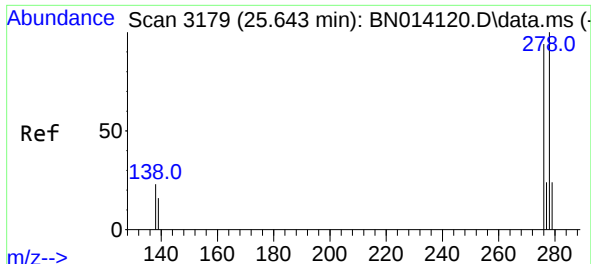
Tgt Ion:252 Resp: 72209  
Ion Ratio Lower Upper  
252 100  
253 22.8 20.6 30.8  
125 10.0 9.5 14.3



#39  
Benzo(a)pyrene  
Concen: 1.36 ng  
RT: 23.329 min Scan# 2503  
Delta R.T. 0.000 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

Tgt Ion:252 Resp: 66566  
Ion Ratio Lower Upper  
252 100  
253 23.6 21.9 32.9  
125 11.6 10.8 16.2

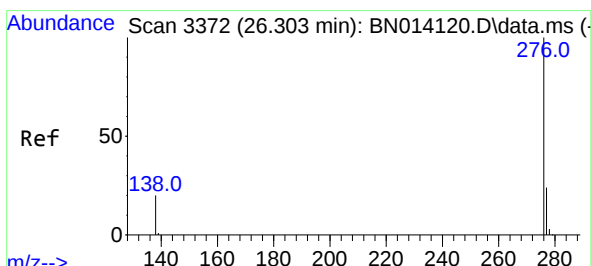
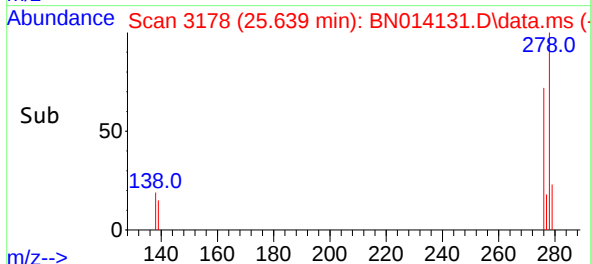
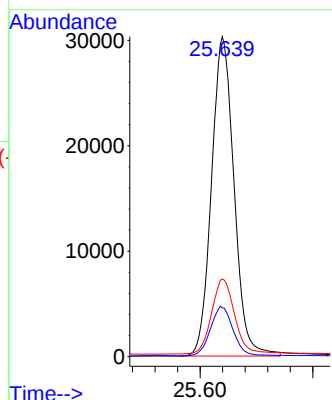
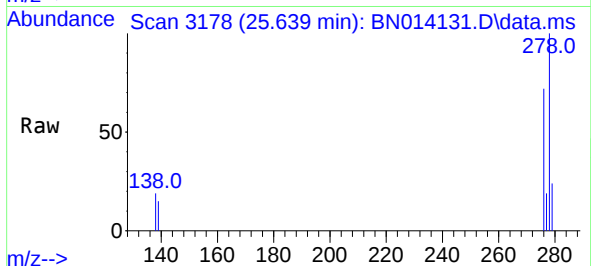




#40  
Dibenzo(a,h)anthracene  
Concen: 1.67 ng  
RT: 25.639 min Scan# 3178  
Delta R.T. 0.000 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

Instrument :  
BNA\_N  
ClientSampleId :  
PT-BN-WPDL

Tgt Ion:278 Resp: 84123  
Ion Ratio Lower Upper  
278 100  
139 15.3 13.4 20.0  
279 24.3 21.3 31.9



#41  
Benzo(g,h,i)perylene  
Concen: 2.11 ng  
RT: 26.300 min Scan# 3371  
Delta R.T. 0.000 min  
Lab File: BN014131.D  
Acq: 29 Mar 2021 17:38

Tgt Ion:276 Resp: 112861  
Ion Ratio Lower Upper  
276 100  
277 23.9 20.1 30.1  
138 20.6 17.0 25.4

