

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070924\  
 Data File : BN032584.D  
 Acq On : 09 Jul 2024 12:50  
 Operator : MA/JU  
 Sample : P3127-03  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BP-VPB-196-GW-745-747

Quant Time: Jul 09 13:49:55 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN070924.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 09 02:39:48 2024  
 Response via : Initial Calibration

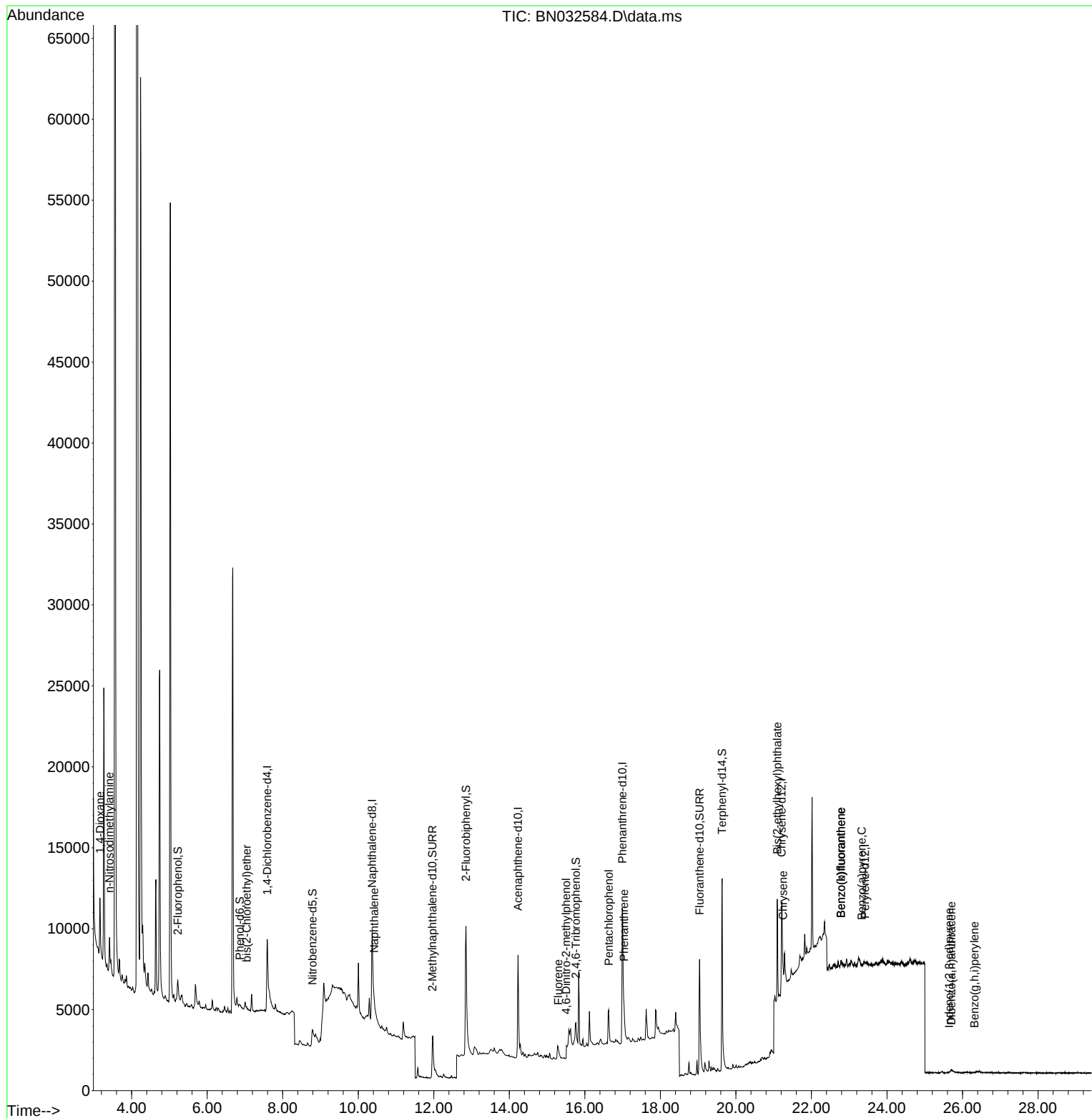
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.588  | 152  | 4127     | 0.400  | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.368 | 136  | 14100    | 0.400  | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 14.231 | 164  | 4366     | 0.400  | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.991 | 188  | 18683    | 0.400  | ng    | #-0.01   |
| 29) Chrysene-d12              | 21.211 | 240  | 8410     | 0.400  | ng    | # 0.00   |
| 35) Perylene-d12              | 23.420 | 264  | 8        | 0.400  | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 4) 2-Fluorophenol             | 5.219  | 112  | 2331     | 0.224  | ng    | 0.00     |
| 5) Phenol-d6                  | 6.866  | 99   | 1102     | 0.083  | ng    | 0.04     |
| 8) Nitrobenzene-d5            | 8.787  | 82   | 2316     | 0.220  | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.967 | 152  | 6255     | 0.281  | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol      | 15.762 | 330  | 1367     | 0.691  | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.852 | 172  | 11329    | 0.704  | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.040 | 212  | 11311    | 0.232  | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.634 | 244  | 14759    | 0.719  | ng    | -0.01    |
| Target Compounds              |        |      |          |        |       |          |
| 2) 1,4-Dioxane                | 3.161  | 88   | 2628     | 0.484  | ng    | # 85     |
| 3) n-Nitrosodimethylamine     | 3.414  | 42   | 453      | 0.115  | ng    | # 1      |
| 6) bis(2-Chloroethyl)ether    | 7.047  | 93   | 21       | 0.088  | ng    | # 1      |
| 9) Naphthalene                | 10.421 | 128  | 1512     | 0.039  | ng    | # 62     |
| 18) Fluorene                  | 15.300 | 166  | 346      | 0.020  | ng    | # 67     |
| 20) 4,6-Dinitro-2-methylph... | 15.504 | 198  | 4        | 0.198  | ng    | # 1      |
| 24) Pentachlorophenol         | 16.631 | 266  | 232      | 0.209  | ng    | # 1      |
| 25) Phenanthrene              | 17.041 | 178  | 1141     | 0.022  | ng    | # 89     |
| 33) Chrysene                  | 21.247 | 228  | 779      | 0.024  | ng    | # 60     |
| 34) Bis(2-ethylhexyl)phtha... | 21.094 | 149  | 6016     | 0.318  | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.645 | 276  | 3        | 0.098  | ng    | # 1      |
| 37) Benzo(b)fluoranthene      | 22.779 | 252  | 400      | 15.002 | ng    | # 1      |
| 38) Benzo(k)fluoranthene      | 22.779 | 252  | 400      | 13.024 | ng    | # 1      |
| 39) Benzo(a)pyrene            | 23.332 | 252  | 13       | 0.515  | ng    | # 1      |
| 40) Dibenzo(a,h)anthracene    | 25.706 | 278  | 254      | 10.472 | ng    | # 1      |
| 41) Benzo(g,h,i)perylene      | 26.317 | 276  | 3        | 0.114  | ng    | # 1      |

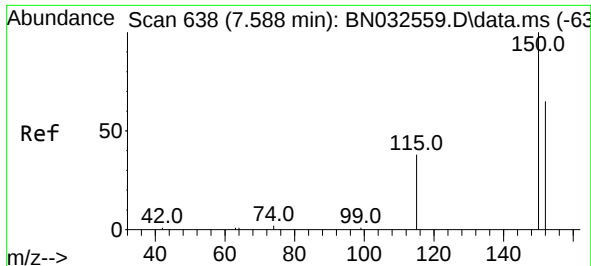
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070924\  
Data File : BN032584.D  
Acq On : 09 Jul 2024 12:50  
Operator : MA/JU  
Sample : P3127-03  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-196-GW-745-747

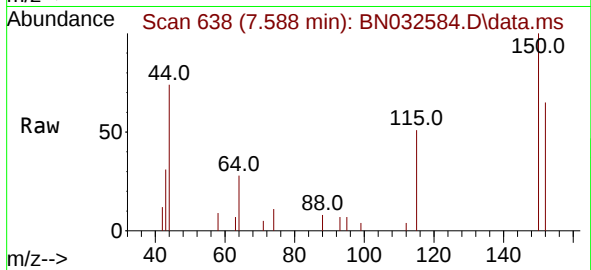
Quant Time: Jul 09 13:49:55 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN070924.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 09 02:39:48 2024  
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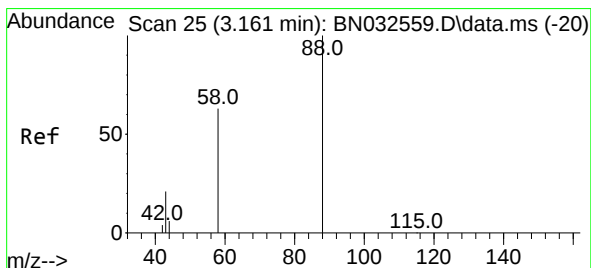
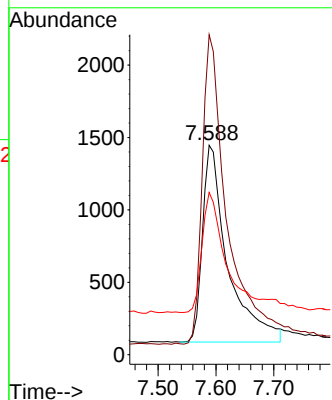
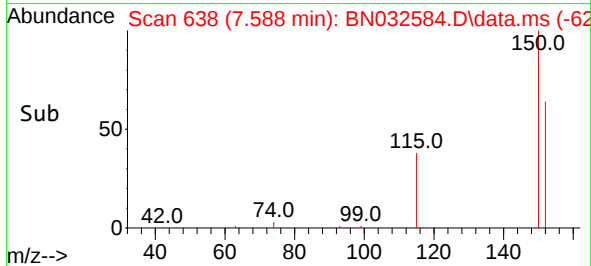


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.588 min Scan# 61  
 Delta R.T. 0.000 min  
 Lab File: BN032584.D  
 Acq: 09 Jul 2024 12:50

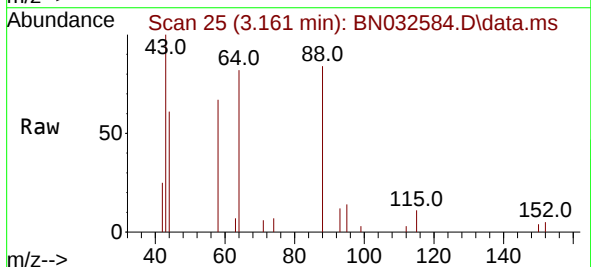
Instrument :  
 BNA\_N  
 ClientSampleId :  
 BP-VPB-196-GW-745-747



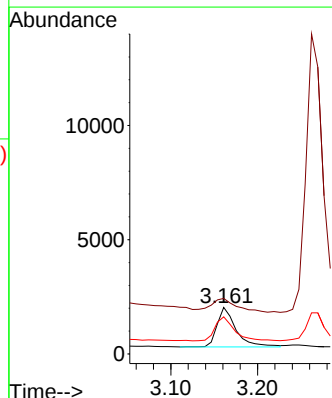
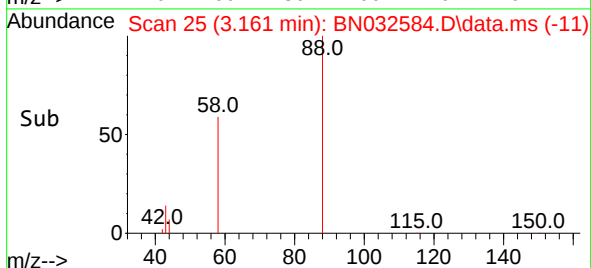
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 Ion Ratio Lower Upper  
 152 100  
 150 152.7 121.6 182.4  
 115 77.5 53.1 79.7

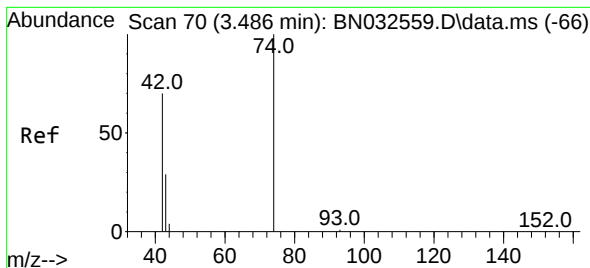


#2  
 1,4-Dioxane  
 Concen: 0.484 ng  
 RT: 3.161 min Scan# 25  
 Delta R.T. 0.000 min  
 Lab File: BN032584.D  
 Acq: 09 Jul 2024 12:50



Tgt Ion: 88 Resp: 2628  
 Ion Ratio Lower Upper  
 88 100  
 43 48.7 20.4 30.6#  
 58 61.6 51.0 76.6





#3

n-Nitrosodimethylamine

Concen: 0.115 ng

RT: 3.414 min Scan# 60

Delta R.T. -0.072 min

Lab File: BN032584.D

Acq: 09 Jul 2024 12:50

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-196-GW-745-747

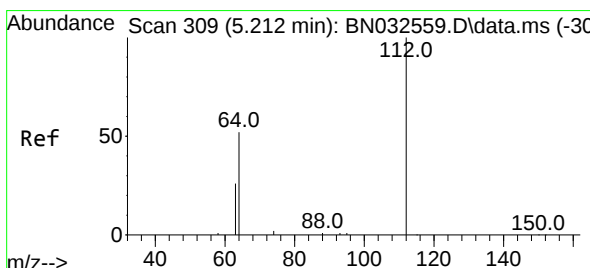
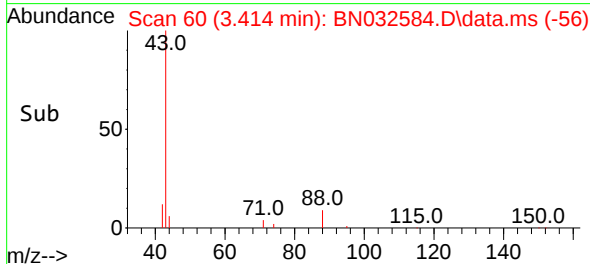
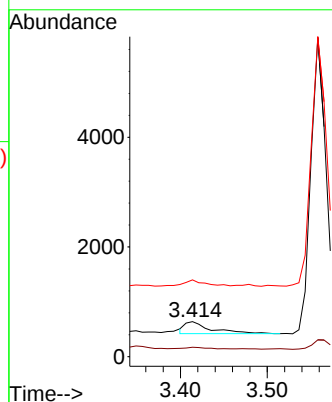
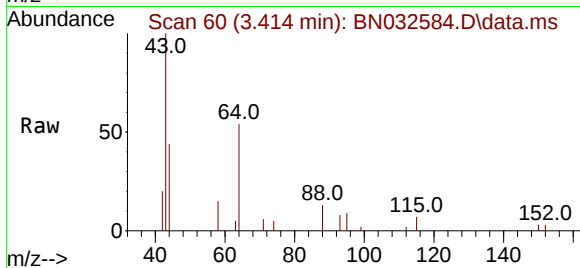
Tgt Ion: 42 Resp: 453

Ion Ratio Lower Upper

42 100

74 9.9 126.8 190.2#

44 31.6 8.7 13.1#



#4

2-Fluorophenol

Concen: 0.224 ng

RT: 5.219 min Scan# 310

Delta R.T. 0.007 min

Lab File: BN032584.D

Acq: 09 Jul 2024 12:50

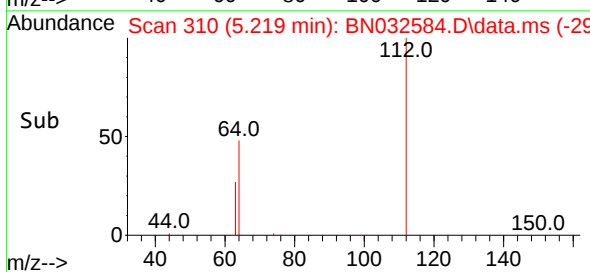
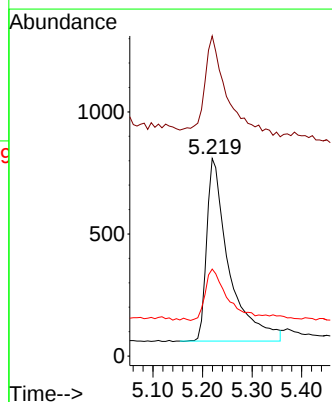
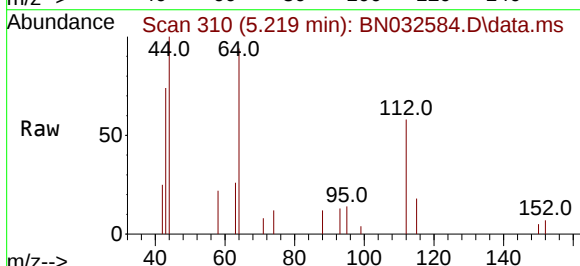
Tgt Ion: 112 Resp: 2331

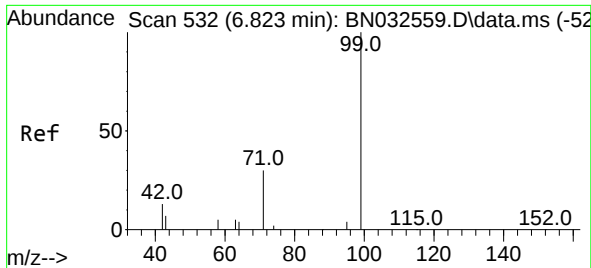
Ion Ratio Lower Upper

112 100

64 57.6 41.2 61.8

63 29.1 21.6 32.4





#5

Phenol-d6

Concen: 0.083 ng

RT: 6.866 min Scan# 51

Delta R.T. 0.043 min

Lab File: BN032584.D

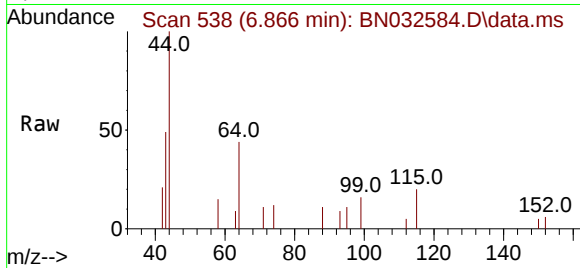
Acq: 09 Jul 2024 12:50

Instrument :

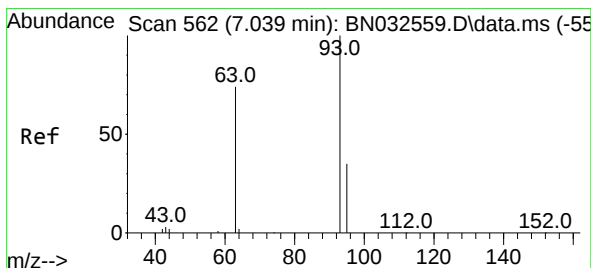
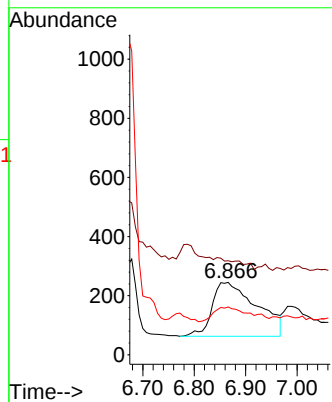
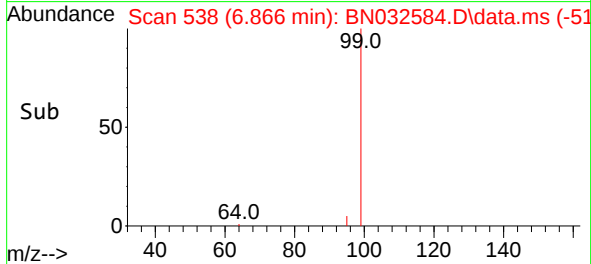
BNA\_N

ClientSampleId :

BP-VPB-196-GW-745-747



| Tgt Ion: | 99 | Ratio | 100  | Lower | Upper |
|----------|----|-------|------|-------|-------|
| Ion      | 99 | 100   |      |       |       |
|          | 42 | 0.0   | 10.6 | 16.0# |       |
|          | 71 | 21.6  | 25.2 | 37.8# |       |



#6

bis(2-Chloroethyl)ether

Concen: 0.088 ng

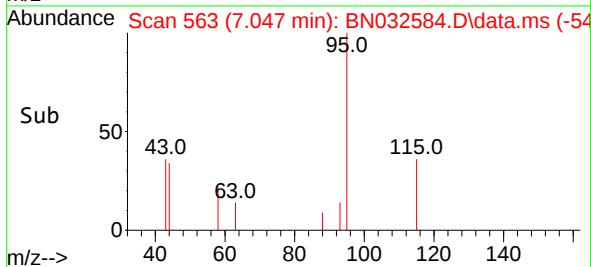
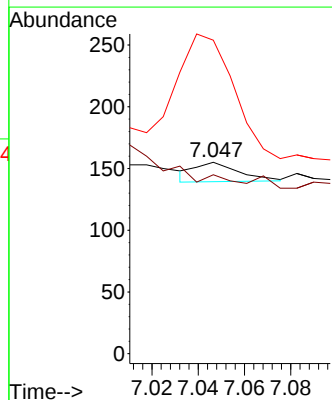
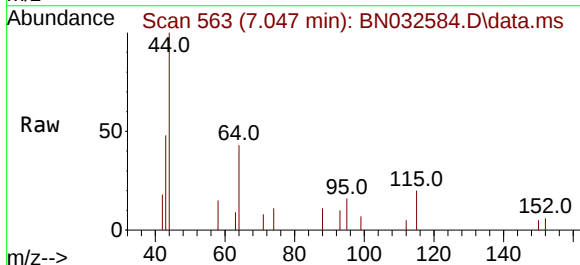
RT: 7.047 min Scan# 563

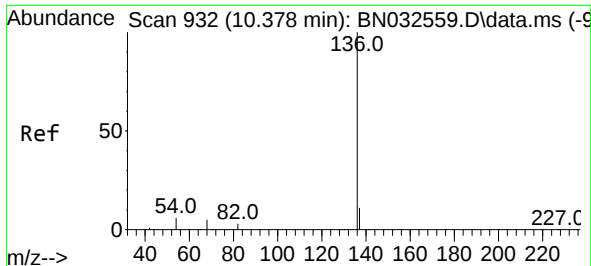
Delta R.T. 0.008 min

Lab File: BN032584.D

Acq: 09 Jul 2024 12:50

| Tgt Ion: | 93 | Ratio  | 100  | Lower | Upper |
|----------|----|--------|------|-------|-------|
| Ion      | 93 | 100    |      |       |       |
|          | 63 | 0.0    | 54.1 | 81.1# |       |
|          | 95 | 1033.3 | 30.5 | 45.7# |       |

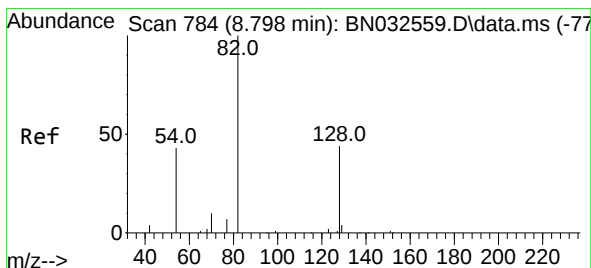
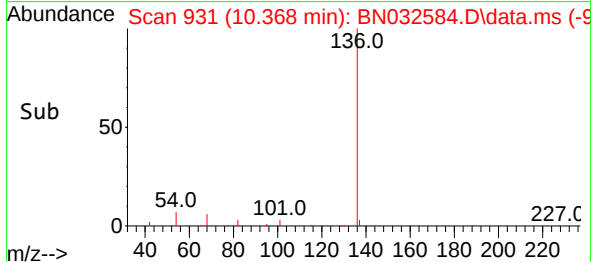
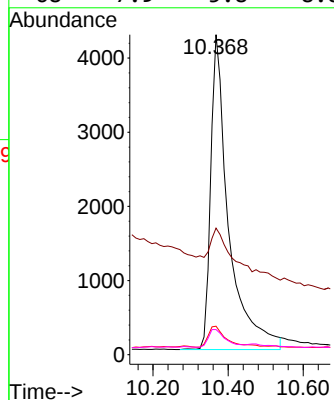
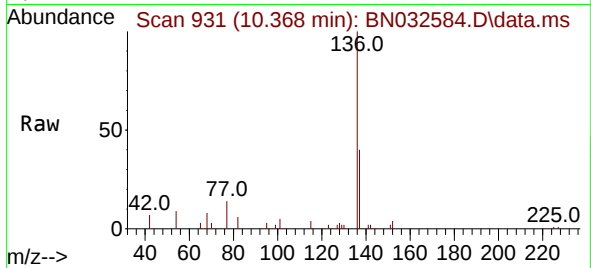




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.368 min Scan# 91  
Delta R.T. -0.010 min  
Lab File: BN032584.D  
Acq: 09 Jul 2024 12:50

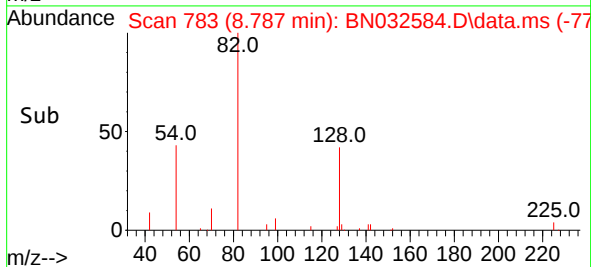
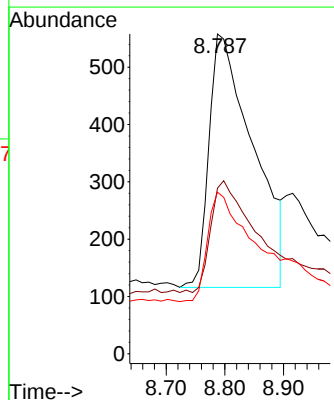
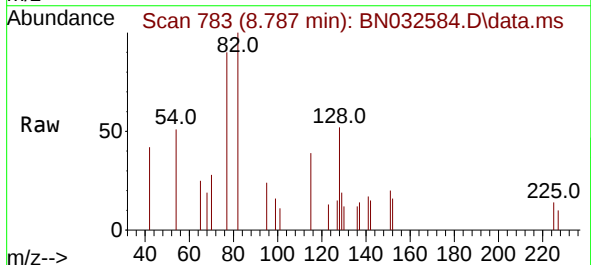
Instrument :  
BNA\_N  
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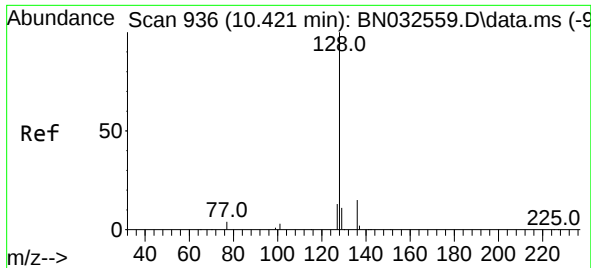
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|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 14100 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 39.6  | 10.0  | 15.0# |
| 54        | 8.9   | 6.6   | 9.8   |
| 68        | 7.9   | 5.8   | 8.8   |



#8  
Nitrobenzene-d5  
Concen: 0.220 ng  
RT: 8.787 min Scan# 783  
Delta R.T. -0.011 min  
Lab File: BN032584.D  
Acq: 09 Jul 2024 12:50

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 2316 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 51.8  | 43.4  | 65.2 |
| 54        | 50.5  | 40.2  | 60.2 |

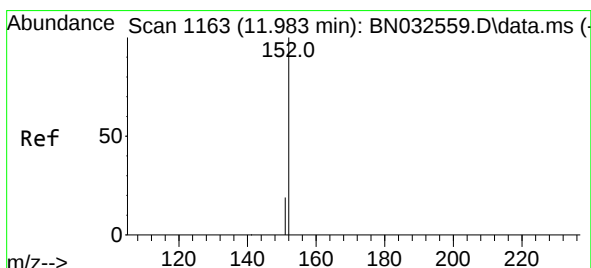
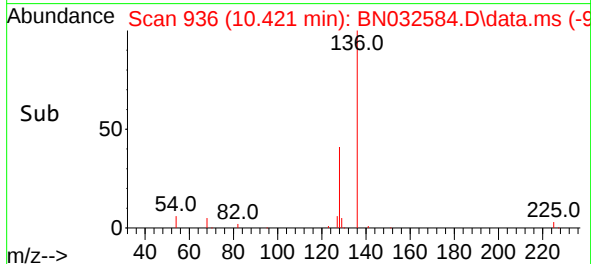
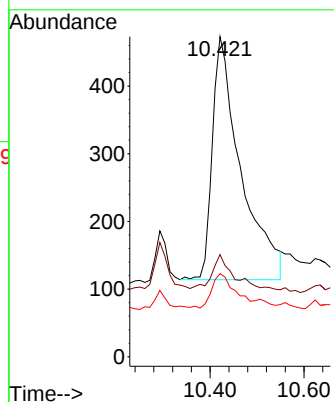
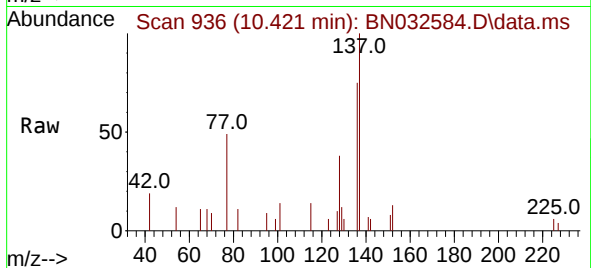




#9  
Naphthalene  
Concen: 0.039 ng  
RT: 10.421 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN032584.D  
Acq: 09 Jul 2024 12:50

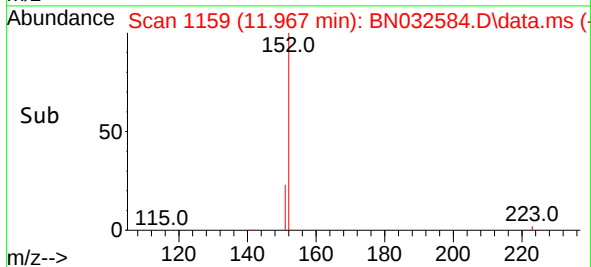
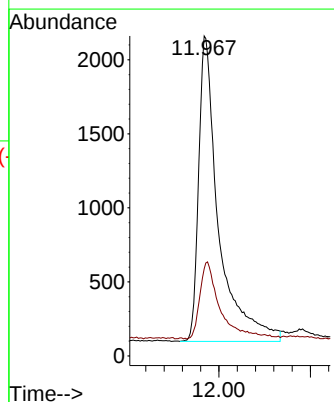
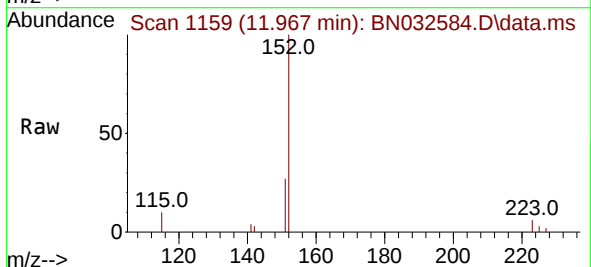
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-196-GW-745-747

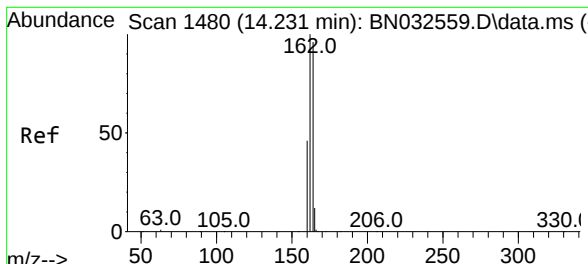
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Ion Ratio Lower Upper  
128 100  
129 31.9 10.2 15.4#  
127 26.0 11.4 17.0#



#11  
2-Methylnaphthalene-d10  
Concen: 0.281 ng  
RT: 11.967 min Scan# 1159  
Delta R.T. -0.015 min  
Lab File: BN032584.D  
Acq: 09 Jul 2024 12:50

Tgt Ion:152 Resp: 6255  
Ion Ratio Lower Upper  
152 100  
151 25.3 16.4 24.6#

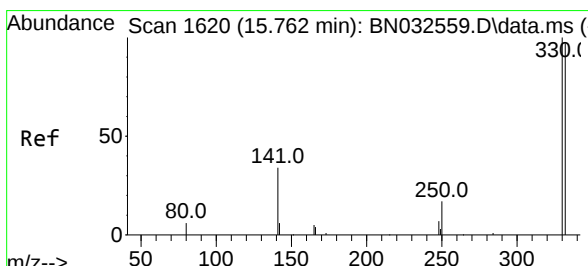
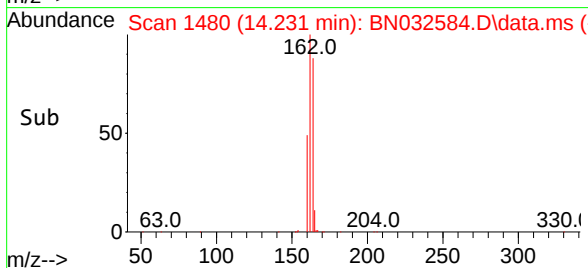
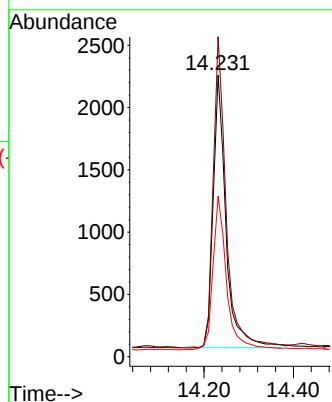
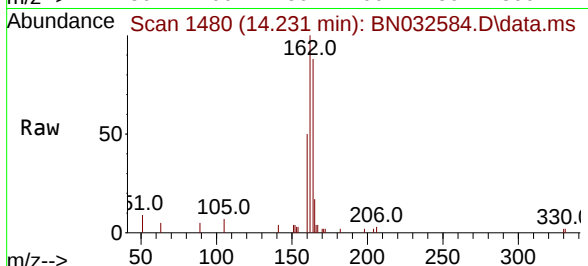




#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.231 min Scan# 14  
 Delta R.T. 0.000 min  
 Lab File: BN032584.D  
 Acq: 09 Jul 2024 12:50

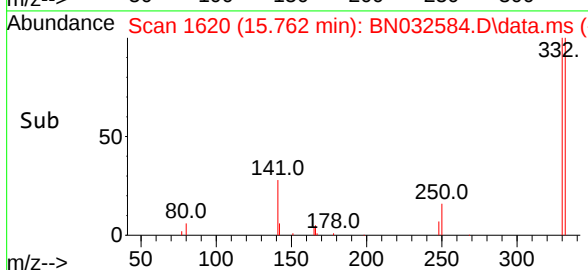
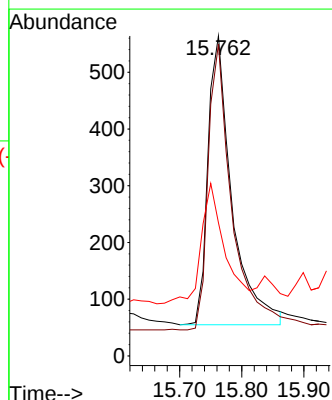
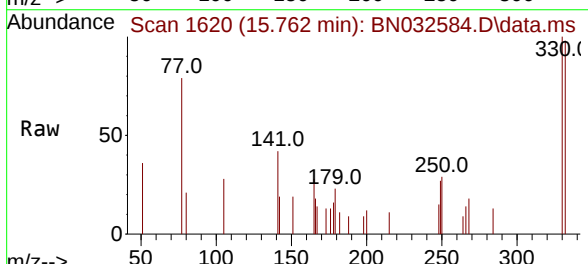
Instrument :  
 BNA\_N  
 ClientSampleId :  
 BP-VPB-196-GW-745-747

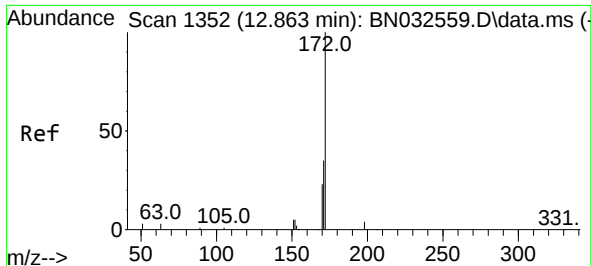
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 4366  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 162      | 113.7 | 83.2  | 124.8 |
| 160      | 57.1  | 38.6  | 57.8  |



#14  
 2,4,6-Tribromophenol  
 Concen: 0.691 ng  
 RT: 15.762 min Scan# 1620  
 Delta R.T. 0.000 min  
 Lab File: BN032584.D  
 Acq: 09 Jul 2024 12:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 330   | Resp: | 1367  |
| Ion      | Ratio | Lower | Upper |
| 330      | 100   |       |       |
| 332      | 98.0  | 77.7  | 116.5 |
| 141      | 36.4  | 31.8  | 47.8  |

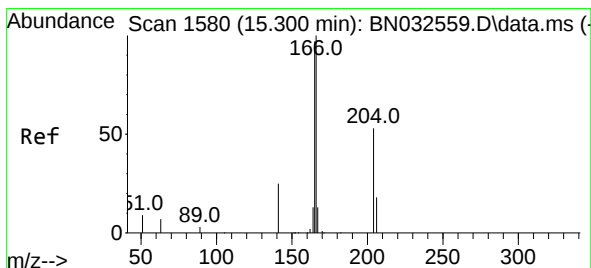
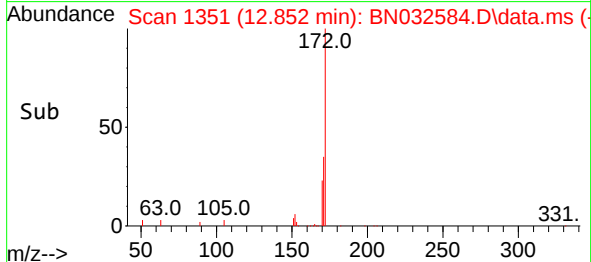
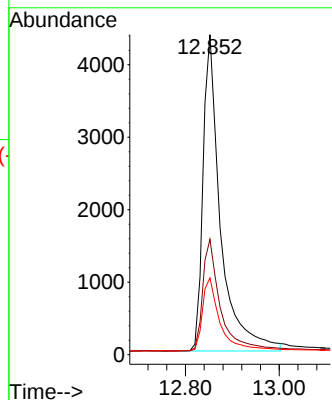
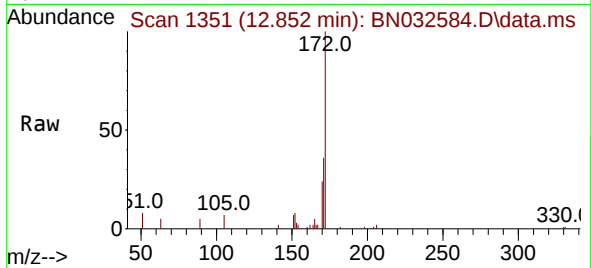




#15  
2-Fluorobiphenyl  
Concen: 0.704 ng  
RT: 12.852 min Scan# 11  
Delta R.T. -0.011 min  
Lab File: BN032584.D  
Acq: 09 Jul 2024 12:50

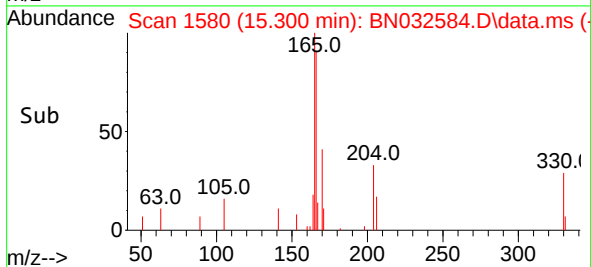
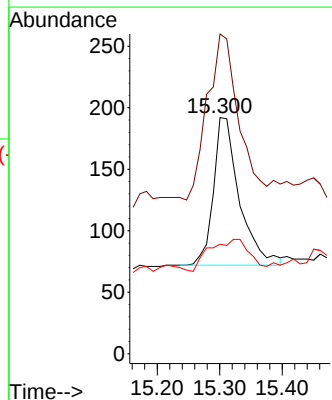
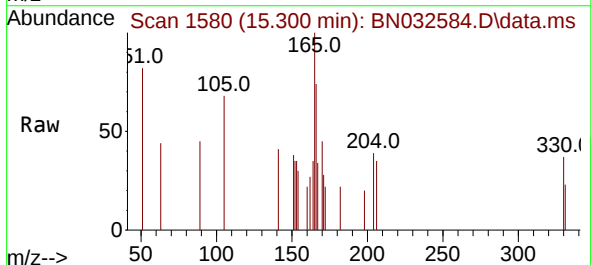
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-196-GW-745-747

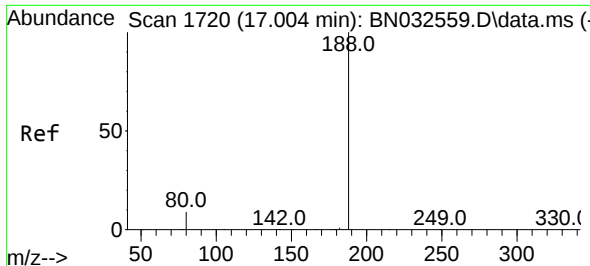
Tgt Ion:172 Resp: 11329  
Ion Ratio Lower Upper  
172 100  
171 36.1 28.5 42.7  
170 24.0 19.2 28.8



#18  
Fluorene  
Concen: 0.020 ng  
RT: 15.300 min Scan# 1580  
Delta R.T. 0.000 min  
Lab File: BN032584.D  
Acq: 09 Jul 2024 12:50

Tgt Ion:166 Resp: 346  
Ion Ratio Lower Upper  
166 100  
165 131.5 78.7 118.1#  
167 0.0 10.7 16.1#

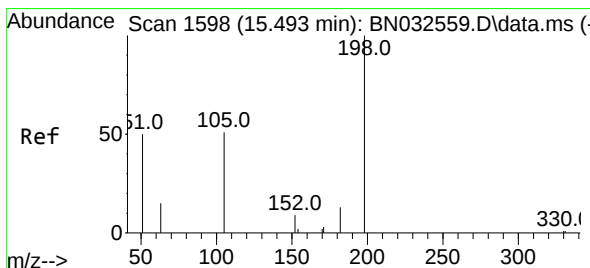
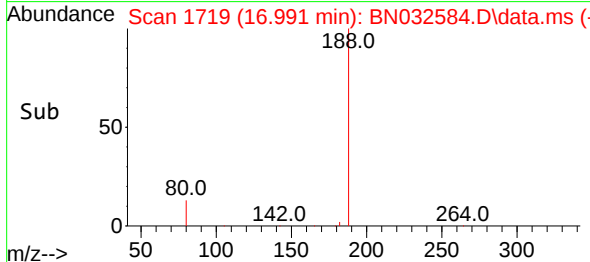
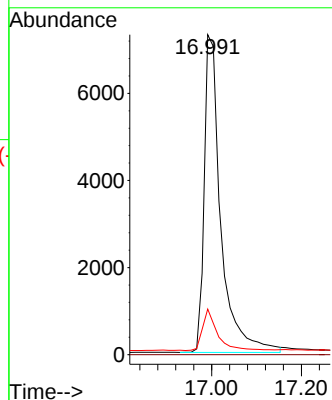
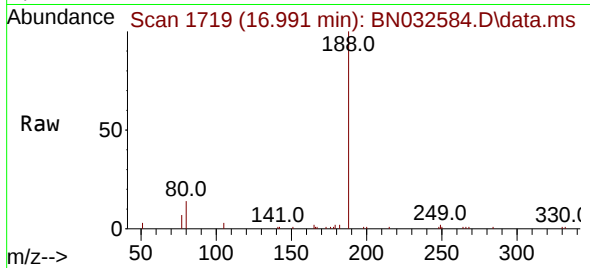




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.991 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BN032584.D  
Acq: 09 Jul 2024 12:50

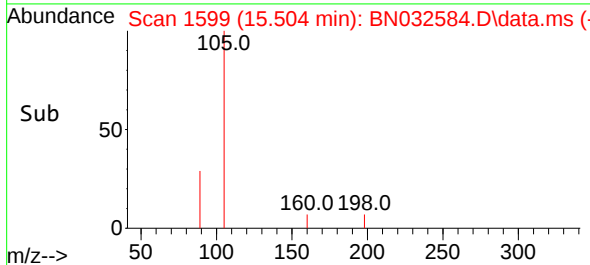
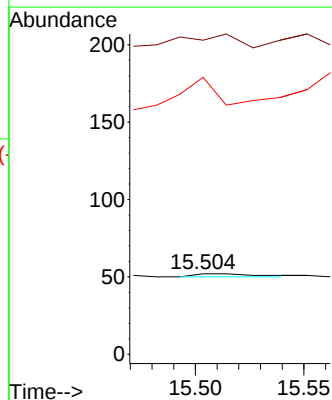
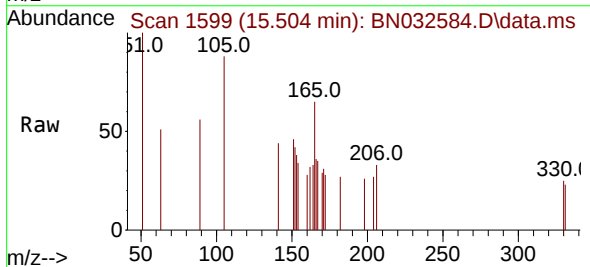
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-196-GW-745-747

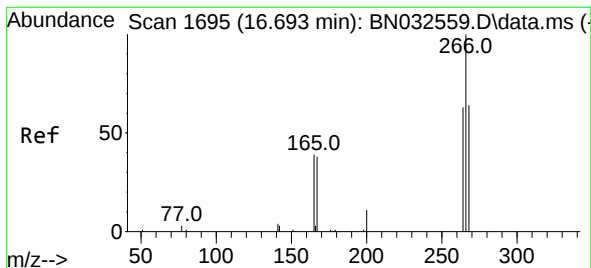
Tgt Ion:188 Resp: 18683  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 14.3 7.8 11.6#



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.198 ng  
RT: 15.504 min Scan# 1599  
Delta R.T. 0.011 min  
Lab File: BN032584.D  
Acq: 09 Jul 2024 12:50

Tgt Ion:198 Resp: 4  
Ion Ratio Lower Upper  
198 100  
51 390.4 123.4 185.2#  
105 344.2 79.5 119.3#





#24

Pentachlorophenol

Concen: 0.209 ng

RT: 16.631 min Scan# 1690

Delta R.T. -0.062 min

Lab File: BN032584.D

Acq: 09 Jul 2024 12:50

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-196-GW-745-747

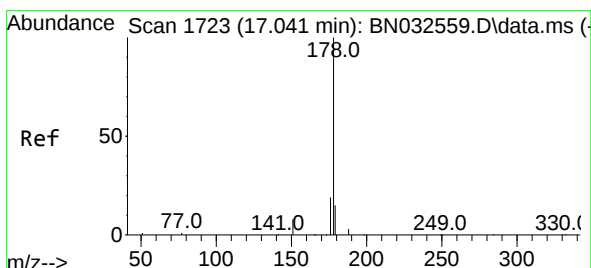
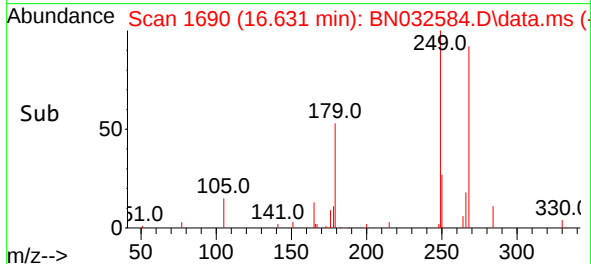
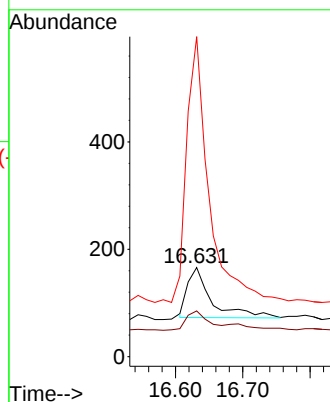
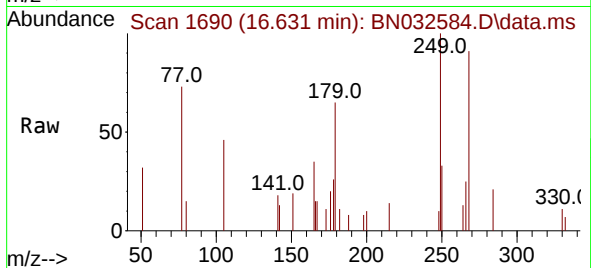
Tgt Ion:266 Resp: 232

Ion Ratio Lower Upper

266 100

264 28.9 49.6 74.4#

268 478.0 52.2 78.2#



#25

Phenanthrene

Concen: 0.022 ng

RT: 17.041 min Scan# 1723

Delta R.T. 0.000 min

Lab File: BN032584.D

Acq: 09 Jul 2024 12:50

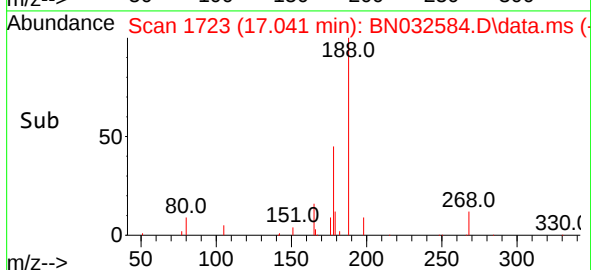
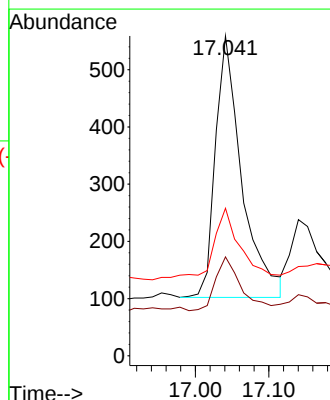
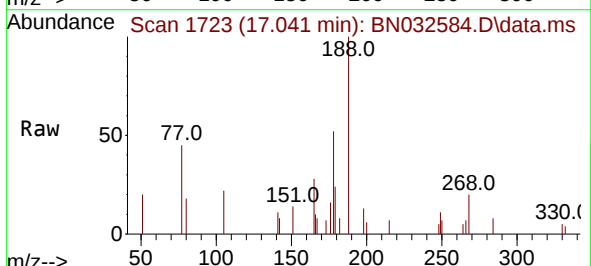
Tgt Ion:178 Resp: 1141

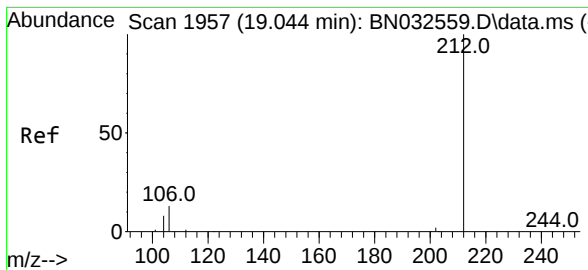
Ion Ratio Lower Upper

178 100

176 19.8 15.2 22.8

179 24.9 12.2 18.4#

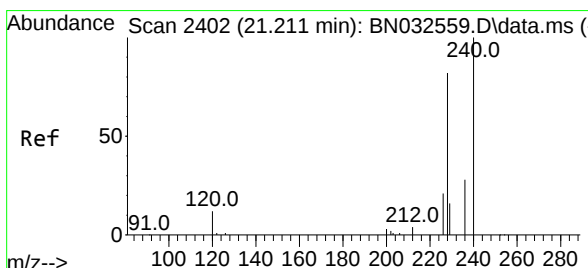
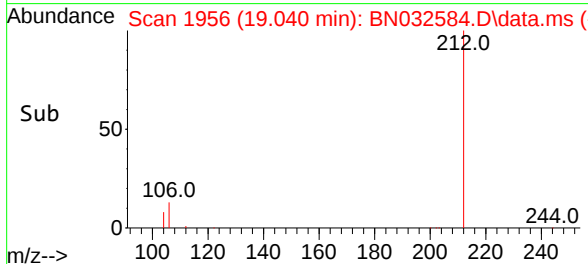
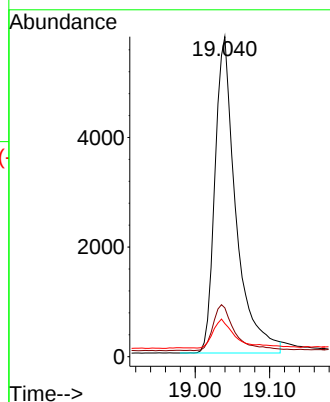
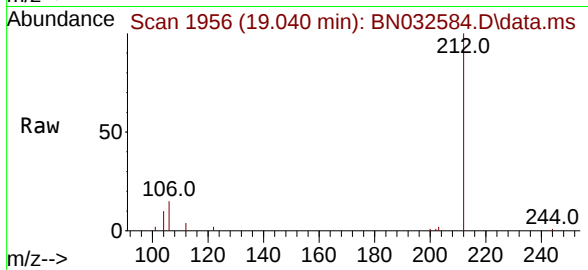




#27  
Fluoranthene-d10  
Concen: 0.232 ng  
RT: 19.040 min Scan# 1957  
Delta R.T. -0.005 min  
Lab File: BN032584.D  
Acq: 09 Jul 2024 12:50

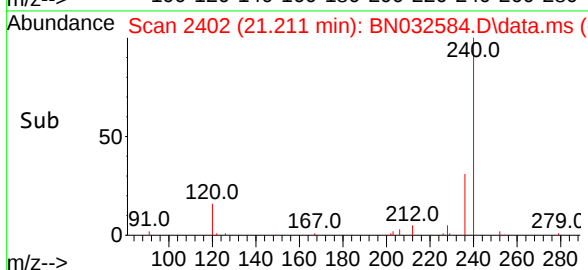
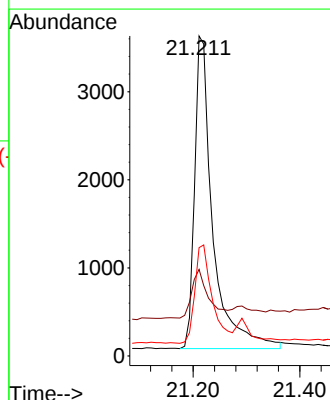
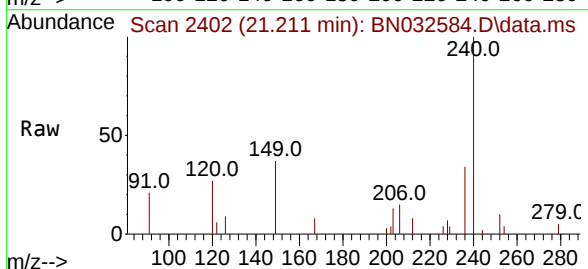
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-196-GW-745-747

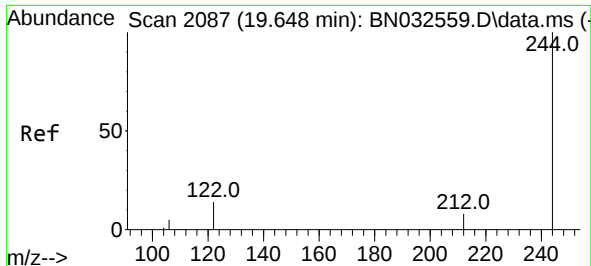
Tgt Ion:212 Resp: 11311  
Ion Ratio Lower Upper  
212 100  
106 15.0 11.8 17.8  
104 9.6 6.9 10.3



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.211 min Scan# 2402  
Delta R.T. 0.000 min  
Lab File: BN032584.D  
Acq: 09 Jul 2024 12:50

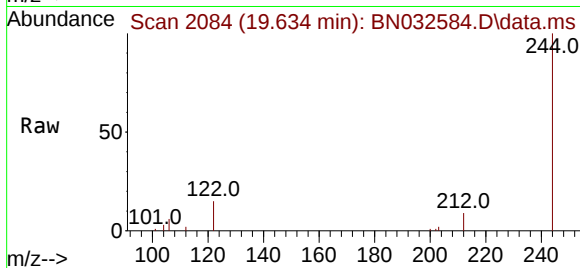
Tgt Ion:240 Resp: 8410  
Ion Ratio Lower Upper  
240 100  
120 27.1 13.0 19.4#  
236 33.9 23.1 34.7



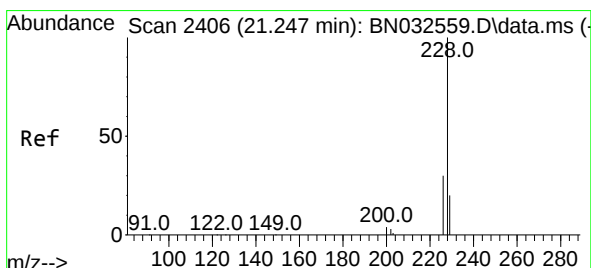
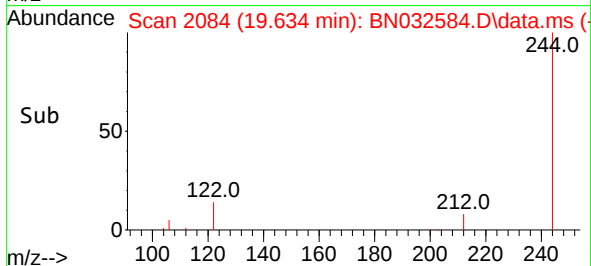
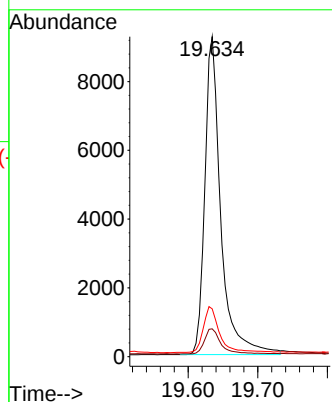


#31  
 Terphenyl-d14  
 Concen: 0.719 ng  
 RT: 19.634 min Scan# 2084  
 Delta R.T. -0.014 min  
 Lab File: BN032584.D  
 Acq: 09 Jul 2024 12:50

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BP-VPB-196-GW-745-747

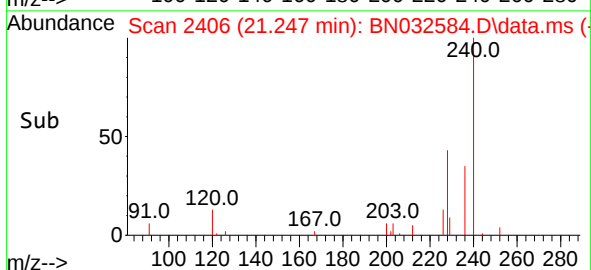
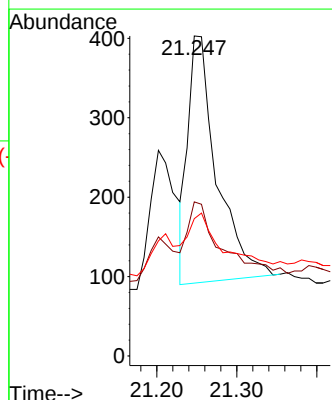
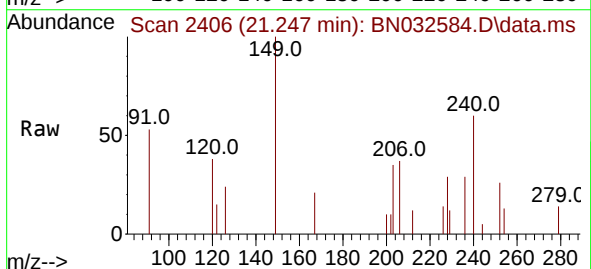


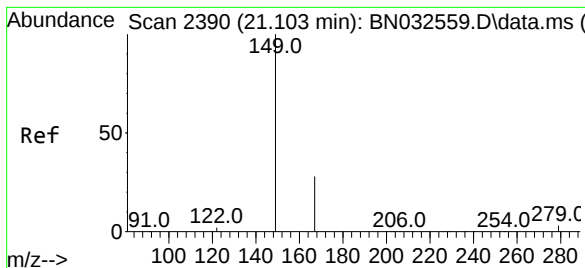
Tgt Ion:244 Resp: 14759  
 Ion Ratio Lower Upper  
 244 100  
 212 8.7 7.2 10.8  
 122 14.9 12.1 18.1



#33  
 Chrysene  
 Concen: 0.024 ng  
 RT: 21.247 min Scan# 2406  
 Delta R.T. 0.000 min  
 Lab File: BN032584.D  
 Acq: 09 Jul 2024 12:50

Tgt Ion:228 Resp: 779  
 Ion Ratio Lower Upper  
 228 100  
 226 48.1 24.1 36.1#  
 229 42.9 16.1 24.1#

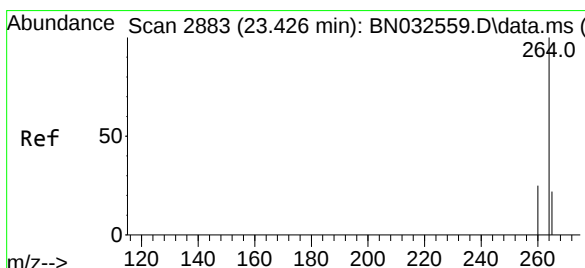
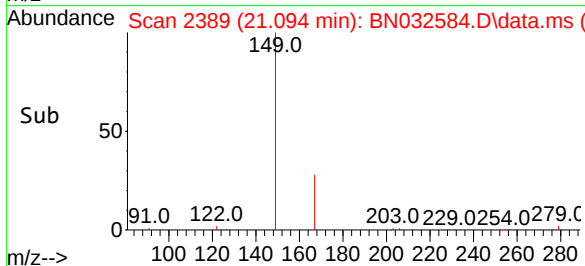
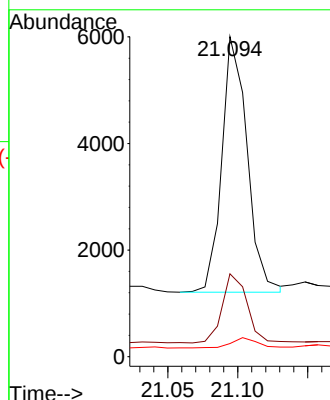
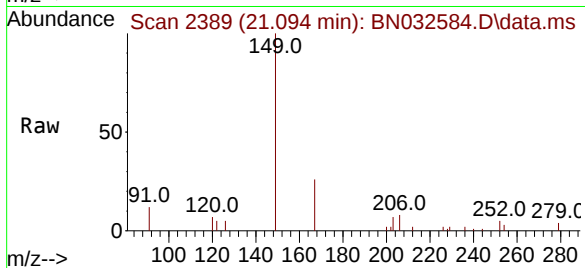




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.318 ng  
RT: 21.094 min Scan# 2109  
Delta R.T. -0.009 min  
Lab File: BN032584.D  
Acq: 09 Jul 2024 12:50

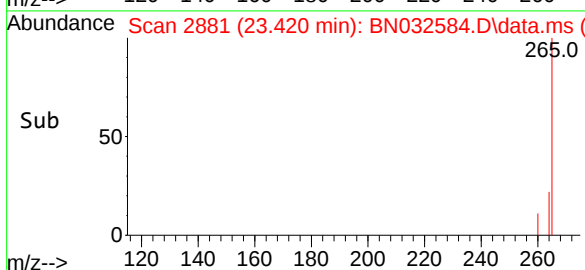
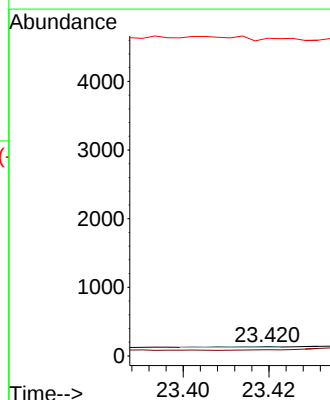
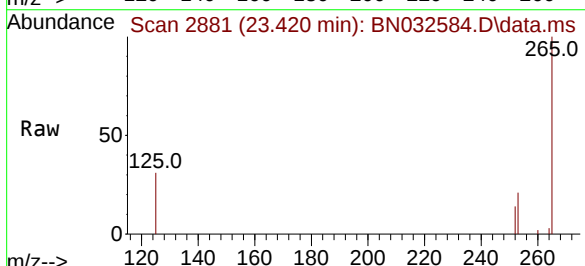
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-196-GW-745-747

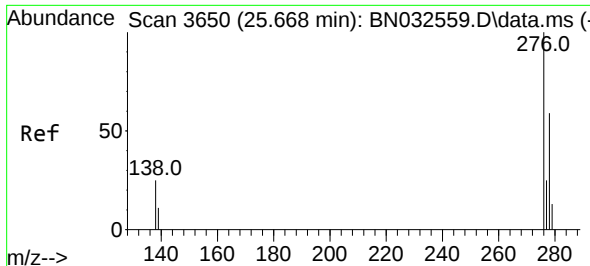
Tgt Ion:149 Resp: 6016  
Ion Ratio Lower Upper  
149 100  
167 27.1 21.6 32.4  
279 4.1 3.0 4.6



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.420 min Scan# 2881  
Delta R.T. -0.006 min  
Lab File: BN032584.D  
Acq: 09 Jul 2024 12:50

Tgt Ion:264 Resp: 8  
Ion Ratio Lower Upper  
264 100  
260 66.9 21.0 31.6#  
265 3404.4 76.6 115.0#

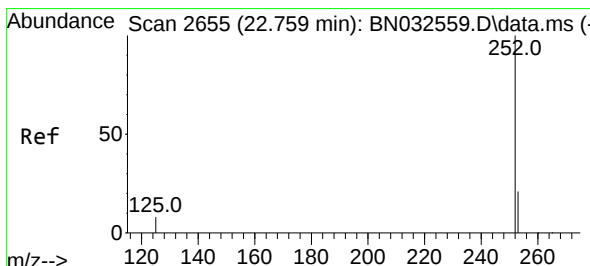
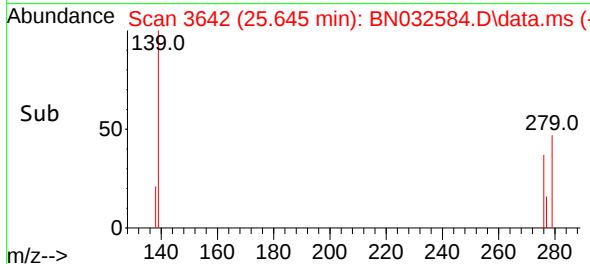
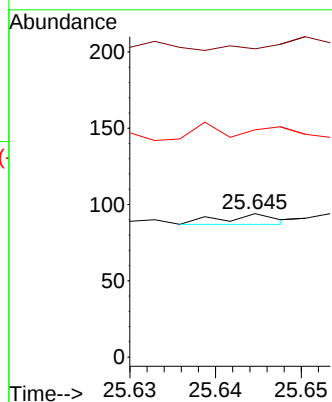
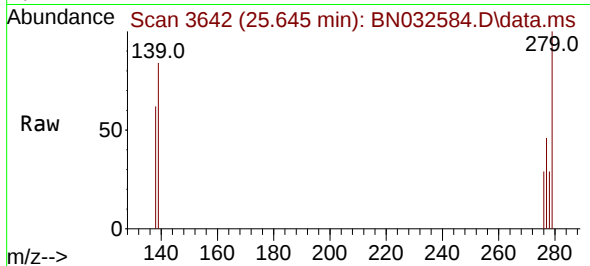




#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.098 ng  
RT: 25.645 min Scan# 30  
Delta R.T. -0.023 min  
Lab File: BN032584.D  
Acq: 09 Jul 2024 12:50

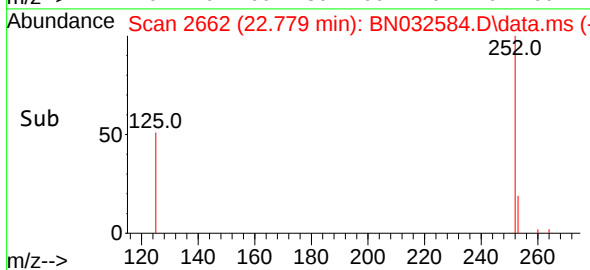
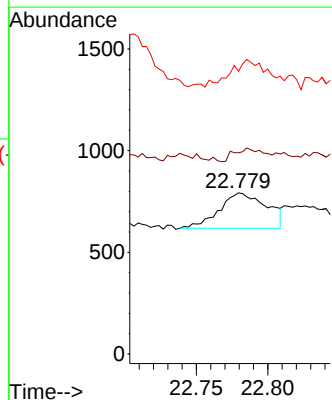
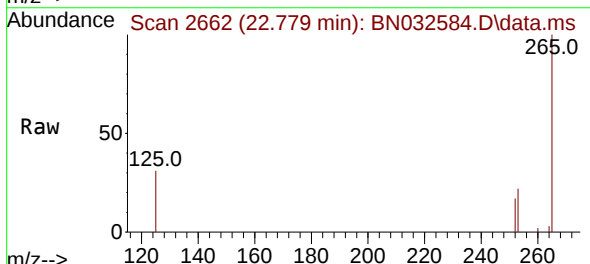
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-196-GW-745-747

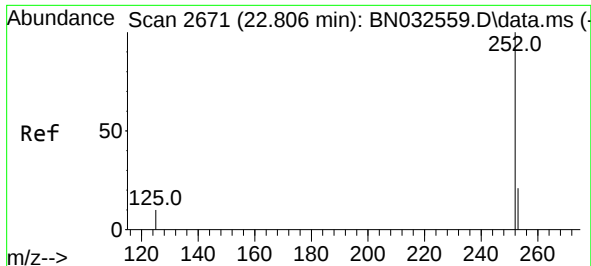
Tgt Ion:276 Resp: 3  
Ion Ratio Lower Upper  
276 100  
138 0.0 21.4 32.0#  
277 100.0 19.9 29.9#



#37  
Benzo(b)fluoranthene  
Concen: 15.002 ng  
RT: 22.779 min Scan# 2662  
Delta R.T. 0.020 min  
Lab File: BN032584.D  
Acq: 09 Jul 2024 12:50

Tgt Ion:252 Resp: 400  
Ion Ratio Lower Upper  
252 100  
253 124.7 22.2 33.4#  
125 175.4 15.4 23.0#

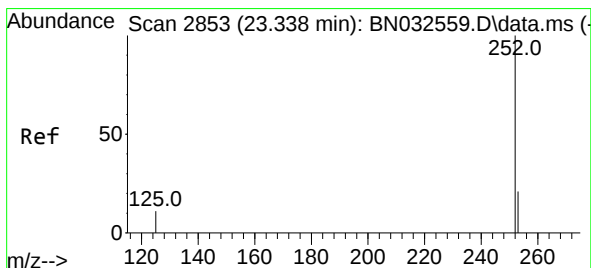
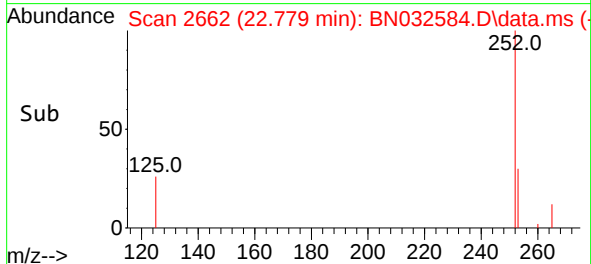
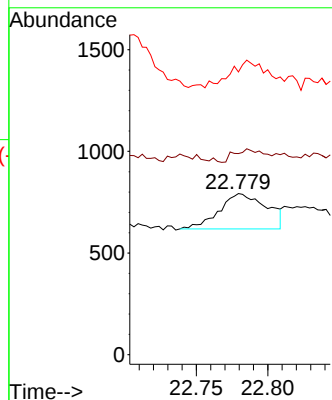
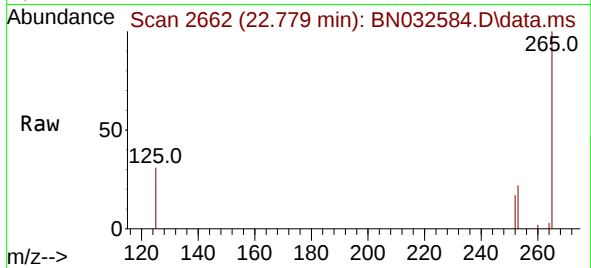




#38  
Benzo(k)fluoranthene  
Concen: 13.024 ng  
RT: 22.779 min Scan# 20  
Delta R.T. -0.026 min  
Lab File: BN032584.D  
Acq: 09 Jul 2024 12:50

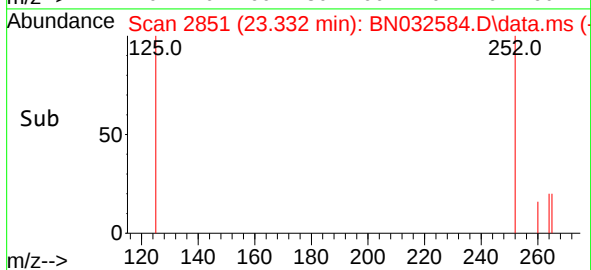
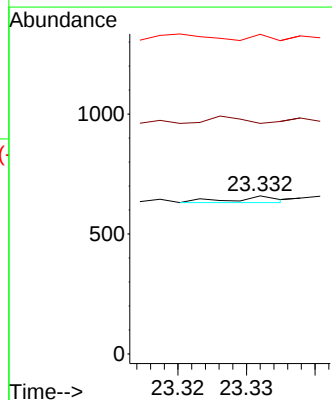
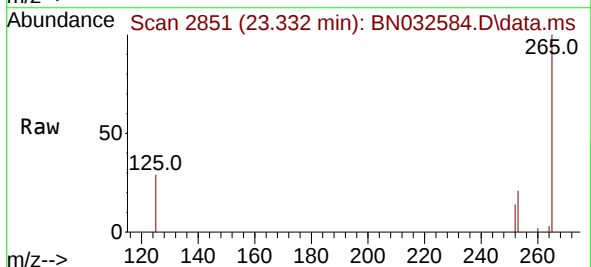
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-196-GW-745-747

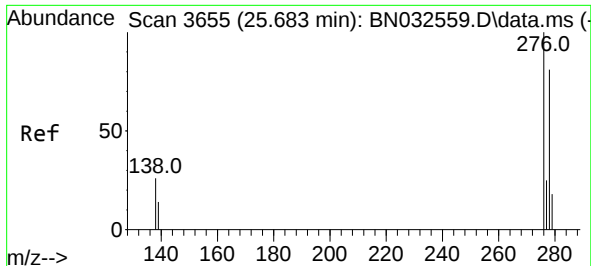
Tgt Ion:252 Resp: 400  
Ion Ratio Lower Upper  
252 100  
253 124.7 21.9 32.9#  
125 175.4 15.3 22.9#



#39  
Benzo(a)pyrene  
Concen: 0.515 ng  
RT: 23.332 min Scan# 2851  
Delta R.T. -0.006 min  
Lab File: BN032584.D  
Acq: 09 Jul 2024 12:50

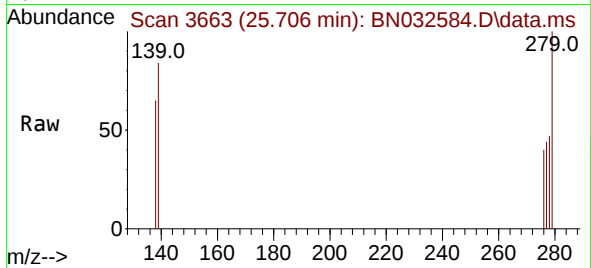
Tgt Ion:252 Resp: 13  
Ion Ratio Lower Upper  
252 100  
253 145.8 25.5 38.3#  
125 202.3 20.7 31.1#



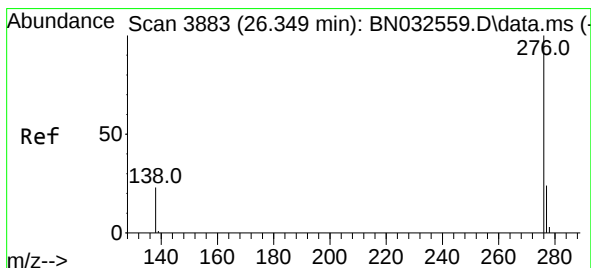
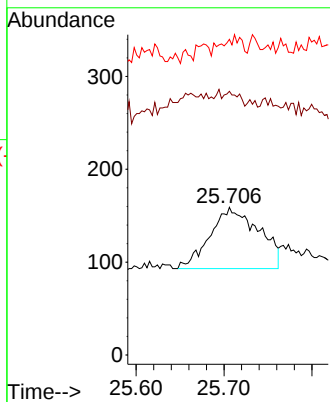
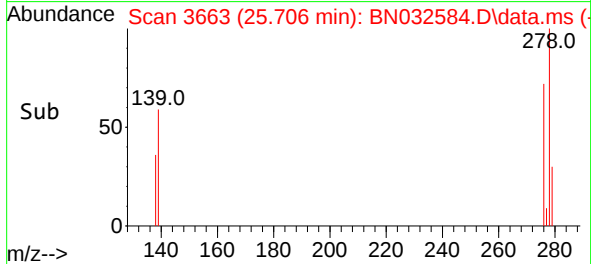


#40  
Dibenzo(a,h)anthracene  
Concen: 10.472 ng  
RT: 25.706 min Scan# 30  
Delta R.T. 0.023 min  
Lab File: BN032584.D  
Acq: 09 Jul 2024 12:50

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-196-GW-745-747



Tgt Ion:278 Resp: 254  
Ion Ratio Lower Upper  
278 100  
139 178.6 17.8 26.6#  
279 213.8 24.4 36.6#



#41  
Benzo(g,h,i)perylene  
Concen: 0.114 ng  
RT: 26.317 min Scan# 3872  
Delta R.T. -0.032 min  
Lab File: BN032584.D  
Acq: 09 Jul 2024 12:50

Tgt Ion:276 Resp: 3  
Ion Ratio Lower Upper  
276 100  
277 160.0 21.5 32.3#  
138 209.5 21.4 32.0#

