

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092524\  
 Data File : BN034234.D  
 Acq On : 25 Sep 2024 20:46  
 Operator : RC/JU  
 Sample : P4164-08  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RE134D2-20240919

Quant Time: Sep 26 00:39:14 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN091924.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 18 16:09:28 2024  
 Response via : Initial Calibration

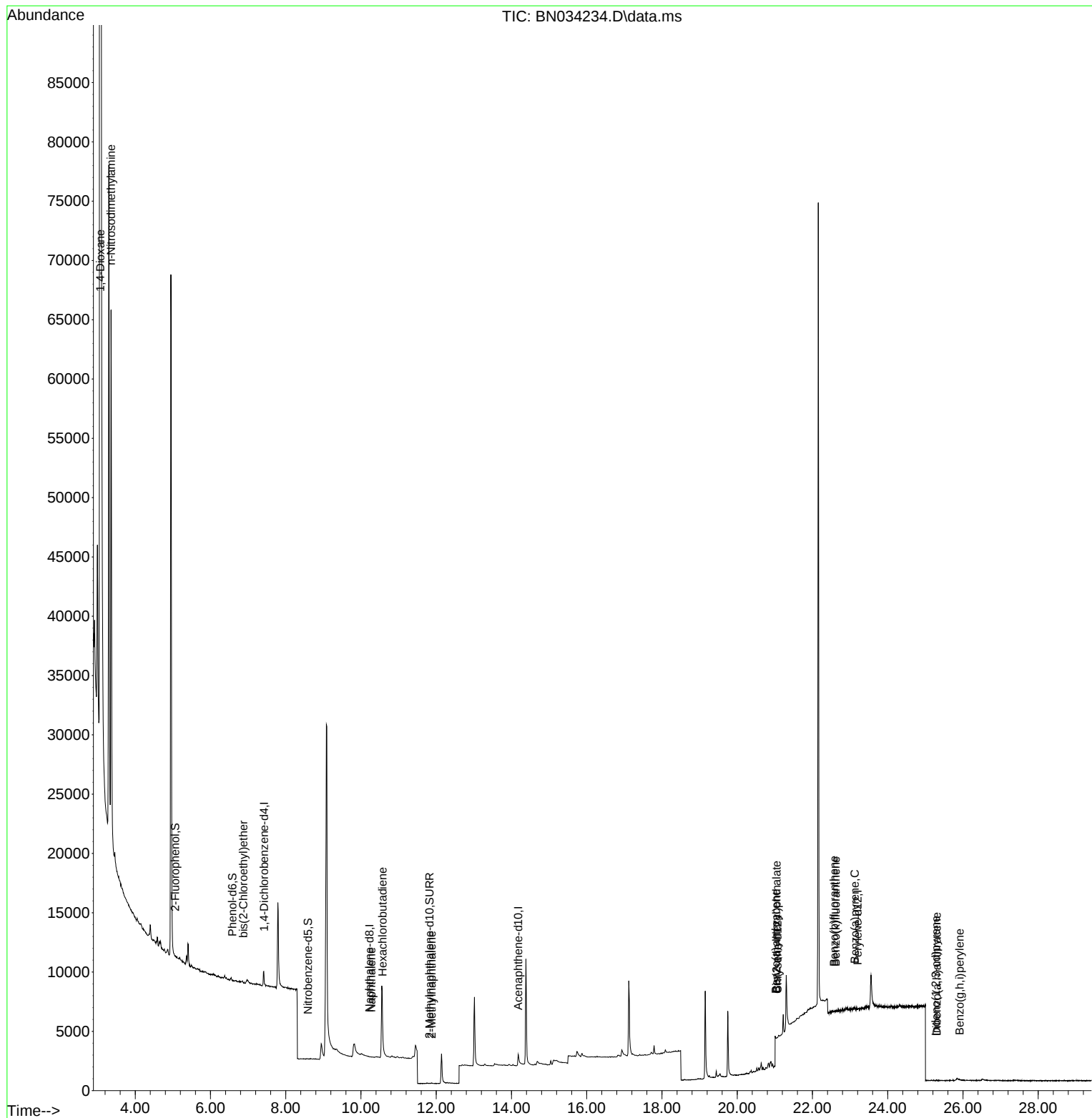
| Compound                      | R.T.   | QIon | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|------|----------|----------|-------|----------|
| -----                         |        |      |          |          |       |          |
| Internal Standards            |        |      |          |          |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.423  | 152  | 5        | 0.400    | ng    | #-0.01   |
| 7) Naphthalene-d8             | 10.223 | 136  | 13       | 0.400    | ng    | # 0.03   |
| 13) Acenaphthene-d10          | 14.179 | 164  | 1120     | 0.400    | ng    | # 0.10   |
| 19) Phenanthrene-d10          | 0.000  | 188  | 0        | 0.000    | ng    | -16.84   |
| 29) Chrysene-d12              | 21.071 | 240  | 332      | 0.400    | ng    | # 0.01   |
| 35) Perylene-d12              | 23.201 | 264  | 9        | 0.400    | ng    | # 0.01   |
|                               |        |      |          |          |       |          |
| System Monitoring Compounds   |        |      |          |          |       |          |
| 4) 2-Fluorophenol             | 5.062  | 112  | 8        | 0.564    | ng    | -0.01    |
| 5) Phenol-d6                  | 6.586  | 99   | 3        | 0.182    | ng    | -0.05    |
| 8) Nitrobenzene-d5            | 8.589  | 82   | 11       | 1.106    | ng    | 0.02     |
| 11) 2-Methylnaphthalene-d10   | 11.818 | 152  | 5        | 0.260    | ng    | 0.02     |
| 14) 2,4,6-Tribromophenol      | 15.654 | 330  | 4        | 0.008    | ng    | 0.07     |
| 15) 2-Fluorobiphenyl          | 12.790 | 172  | 6        | 0.001    | ng    | 0.09     |
| 27) Fluoranthene-d10          | 18.890 | 212  | 5        | 0.000    | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.522 | 244  | 3        | 0.005    | ng    | 0.02     |
|                               |        |      |          |          |       |          |
| Target Compounds              |        |      |          |          |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.068  | 88   | 41093    | 6573.854 | ng    | # 1      |
| 3) n-Nitrosodimethylamine     | 3.357  | 42   | 2109     | 296.394  | ng    | # 1      |
| 6) bis(2-Chloroethyl)ether    | 6.874  | 93   | 37       | 2.534    | ng    | # 32     |
| 9) Naphthalene                | 10.276 | 128  | 18       | 0.505    | ng    | # 1      |
| 10) Hexachlorobutadiene       | 10.575 | 225  | 2        | 0.298    | ng    | # 19     |
| 12) 2-Methylnaphthalene       | 11.874 | 142  | 24       | 1.034    | ng    | # 1      |
| 32) Benzo(a)anthracene        | 21.026 | 228  | 152      | 0.145    | ng    | # 1      |
| 34) Bis(2-ethylhexyl)phtha... | 21.044 | 149  | 2628     | 6.007    | ng    | # 71     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.282 | 276  | 4        | 0.104    | ng    | # 1      |
| 37) Benzo(b)fluoranthene      | 22.572 | 252  | 16       | 0.454    | ng    | # 1      |
| 38) Benzo(k)fluoranthene      | 22.622 | 252  | 36       | 0.973    | ng    | # 1      |
| 39) Benzo(a)pyrene            | 23.122 | 252  | 10       | 0.348    | ng    | # 1      |
| 40) Dibenzo(a,h)anthracene    | 25.303 | 278  | 3        | 0.100    | ng    | # 1      |
| 41) Benzo(g,h,i)perylene      | 25.911 | 276  | 18       | 0.535    | ng    | # 1      |

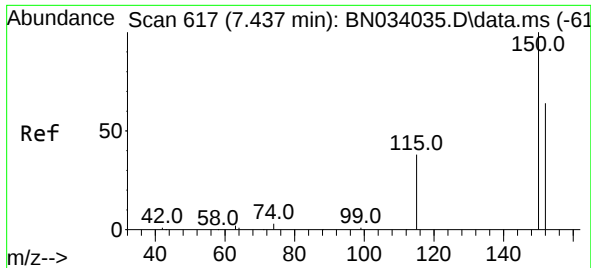
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092524\  
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RE134D2-20240919

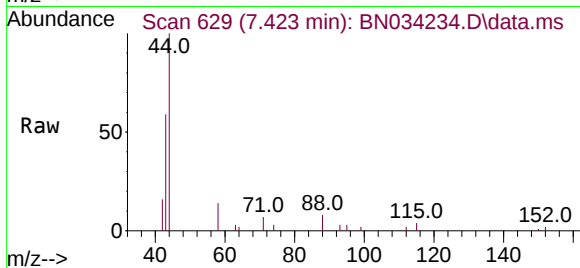
Quant Time: Sep 26 00:39:14 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN091924.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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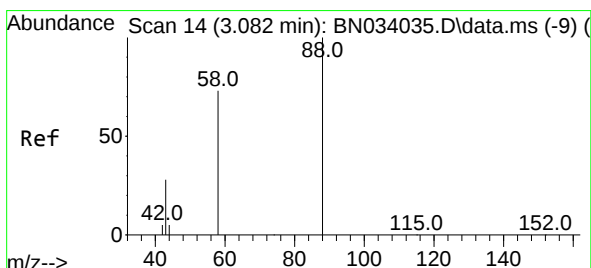
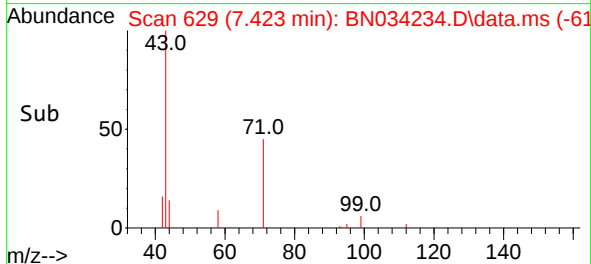
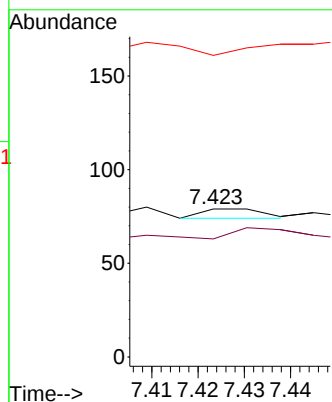


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.423 min Scan# 61  
Delta R.T. -0.014 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

Instrument :  
BNA\_N  
ClientSampleId :  
RE134D2-20240919

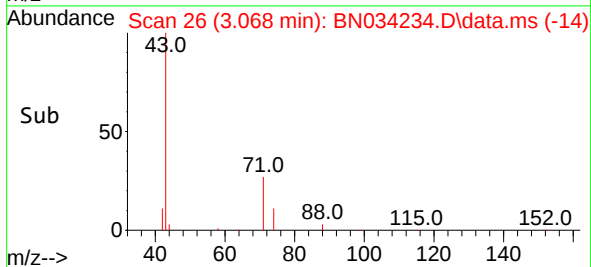
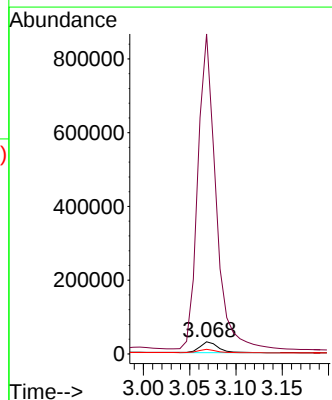
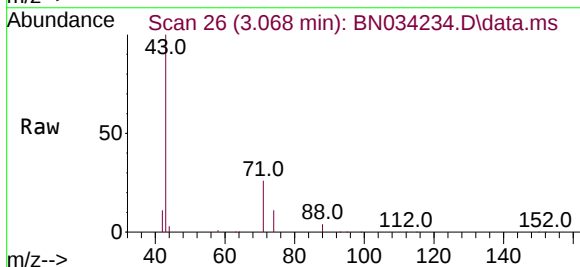


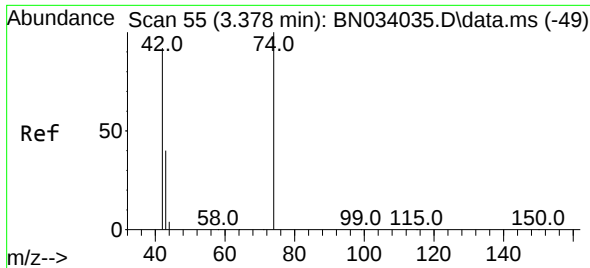
Tgt Ion:152 Resp: 5  
Ion Ratio Lower Upper  
152 100  
150 79.7 124.6 187.0#  
115 203.8 50.0 75.0#



#2  
1,4-Dioxane  
Concen: 6573.854 ng  
RT: 3.068 min Scan# 26  
Delta R.T. -0.013 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

Tgt Ion: 88 Resp: 41093  
Ion Ratio Lower Upper  
88 100  
43 2810.5 25.8 38.8#  
58 31.7 58.8 88.2#

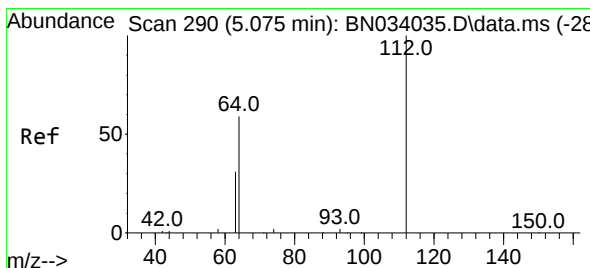
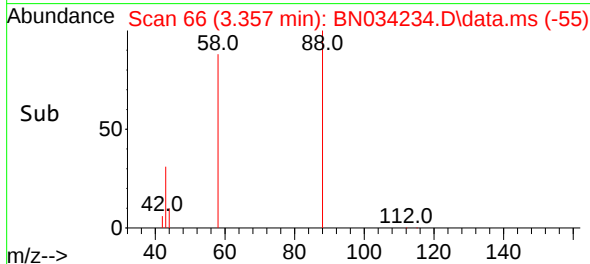
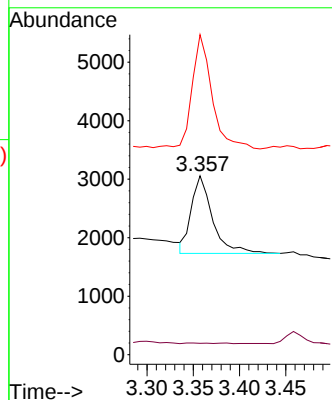
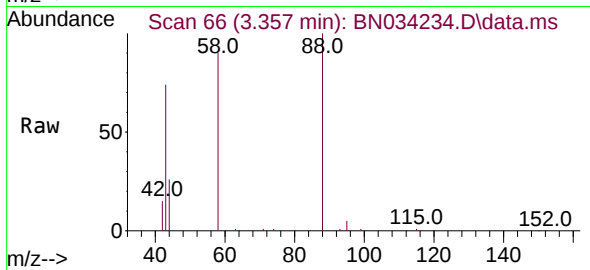




#3  
 n-Nitrosodimethylamine  
 Concen: 296.394 ng  
 RT: 3.357 min Scan# 60  
 Delta R.T. -0.021 min  
 Lab File: BN034234.D  
 Acq: 25 Sep 2024 20:46

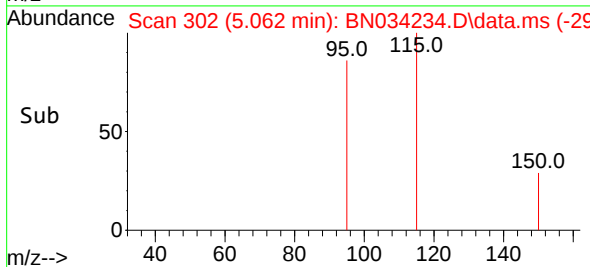
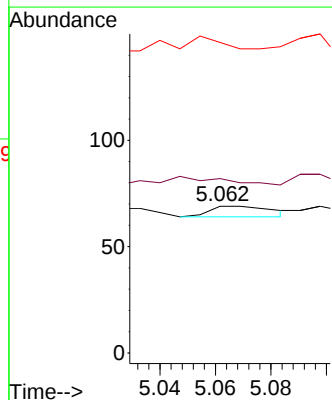
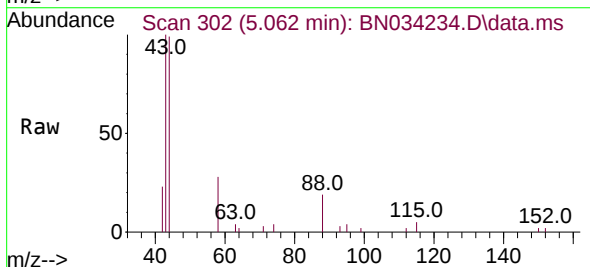
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RE134D2-20240919

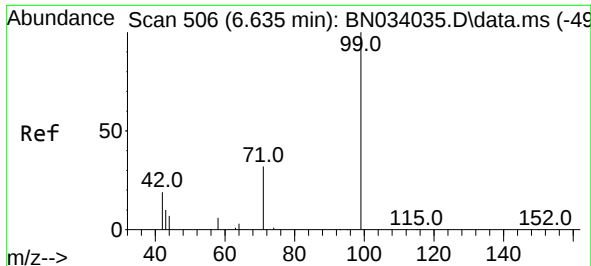
Tgt Ion: 42 Resp: 2109  
 Ion Ratio Lower Upper  
 42 100  
 74 0.7 94.6 142.0#  
 44 140.6 12.4 18.6#



#4  
 2-Fluorophenol  
 Concen: 0.564 ng  
 RT: 5.062 min Scan# 302  
 Delta R.T. -0.013 min  
 Lab File: BN034234.D  
 Acq: 25 Sep 2024 20:46

Tgt Ion: 112 Resp: 8  
 Ion Ratio Lower Upper  
 112 100  
 64 62.5 48.6 72.8  
 63 100.0 25.6 38.4#

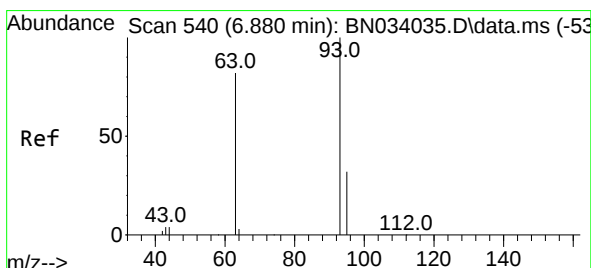
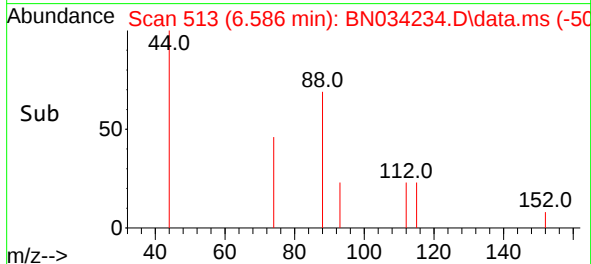
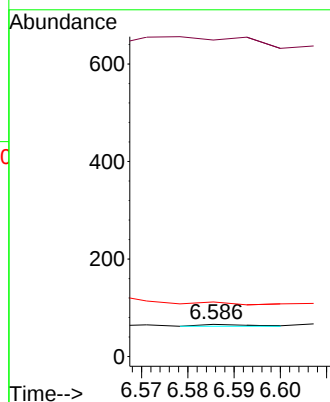
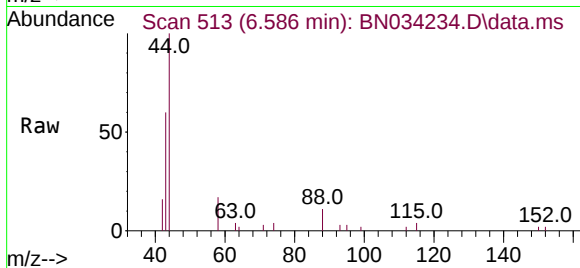




#5  
Phenol-d6  
Concen: 0.182 ng  
RT: 6.586 min Scan# 513  
Delta R.T. -0.049 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

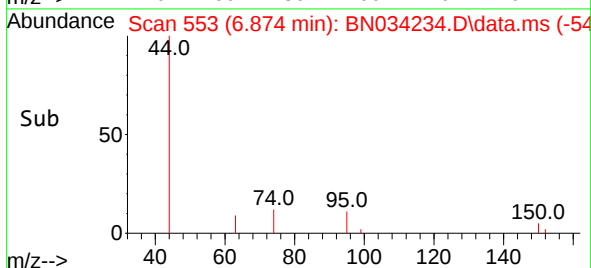
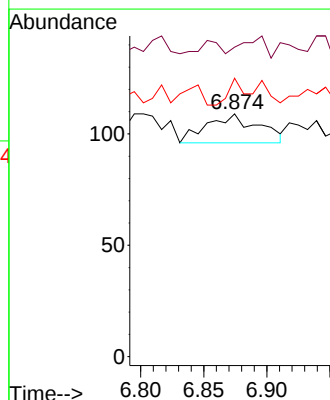
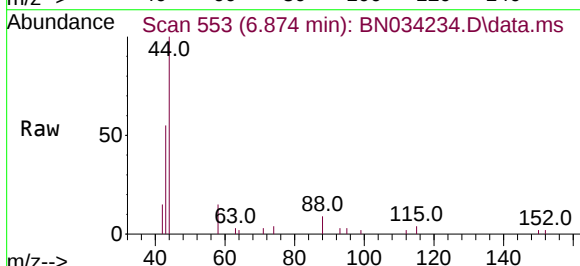
Instrument :  
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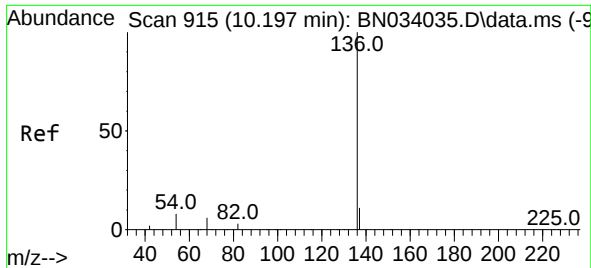
Tgt Ion: 99 Resp: 3  
Ion Ratio Lower Upper  
99 100  
42 0.0 17.8 26.8#  
71 0.0 26.2 39.2#



#6  
bis(2-Chloroethyl)ether  
Concen: 2.534 ng  
RT: 6.874 min Scan# 553  
Delta R.T. -0.006 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

Tgt Ion: 93 Resp: 37  
Ion Ratio Lower Upper  
93 100  
63 0.0 67.3 100.9#  
95 29.7 26.8 40.2



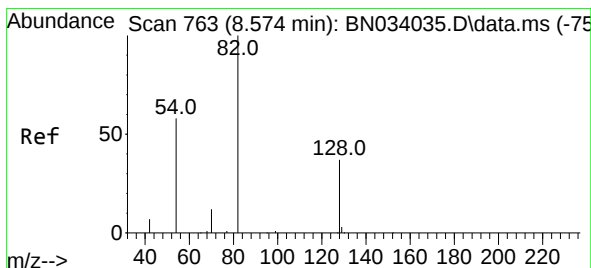
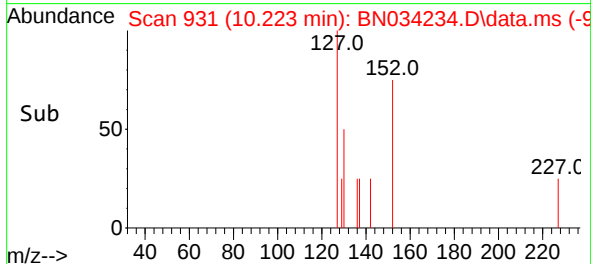
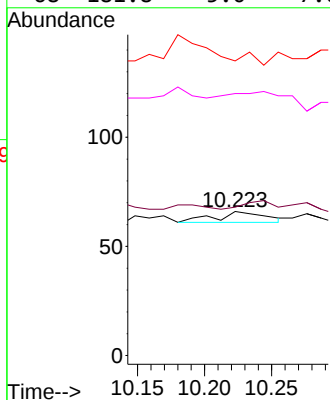
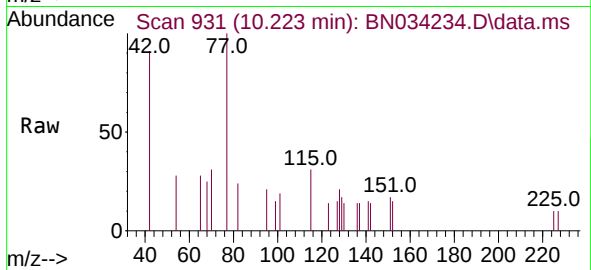


#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.223 min Scan# 915  
Delta R.T. 0.026 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

Instrument :  
BNA\_N  
ClientSampleId :  
RE134D2-20240919

Tgt Ion:136 Resp: 13

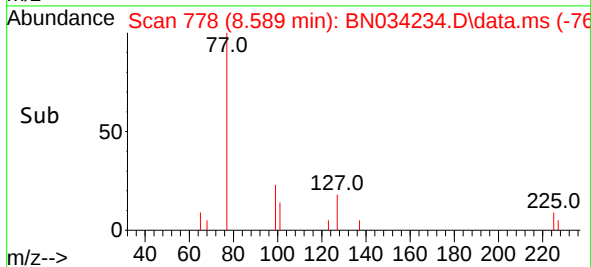
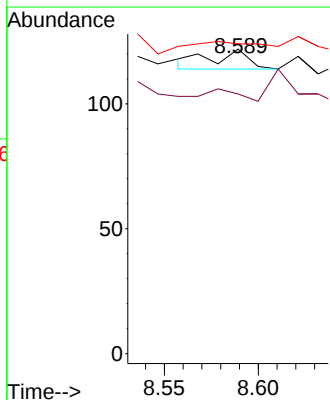
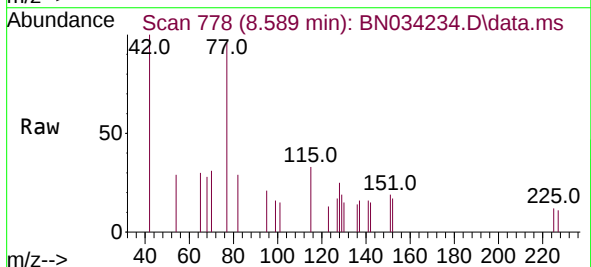
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 103.0 | 9.0   | 13.6# |
| 54  | 204.5 | 6.8   | 10.2# |
| 68  | 181.8 | 5.0   | 7.6#  |

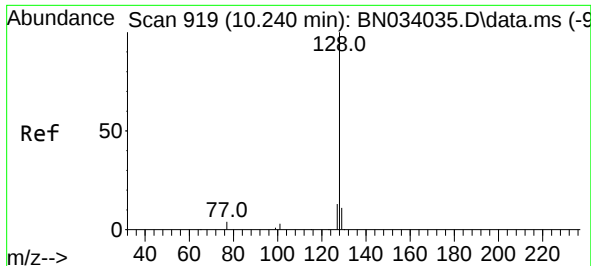


#8  
Nitrobenzene-d5  
Concen: 1.106 ng  
RT: 8.589 min Scan# 778  
Delta R.T. 0.015 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

Tgt Ion: 82 Resp: 11

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 85.2  | 31.4  | 47.2# |
| 54  | 101.6 | 47.4  | 71.0# |

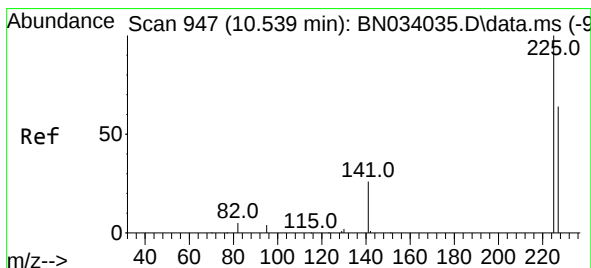
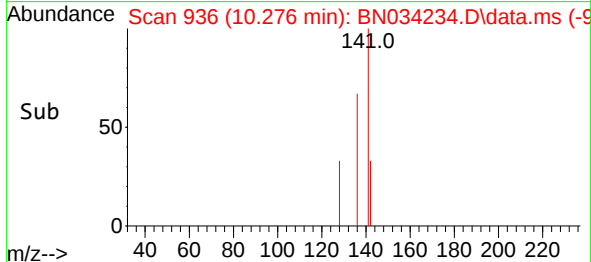
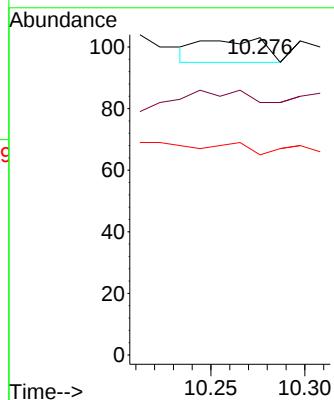
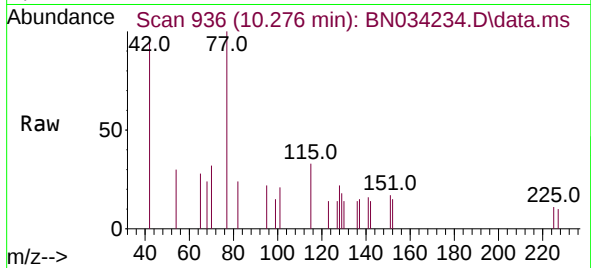




#9  
Naphthalene  
Concen: 0.505 ng  
RT: 10.276 min Scan# 919  
Delta R.T. 0.037 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

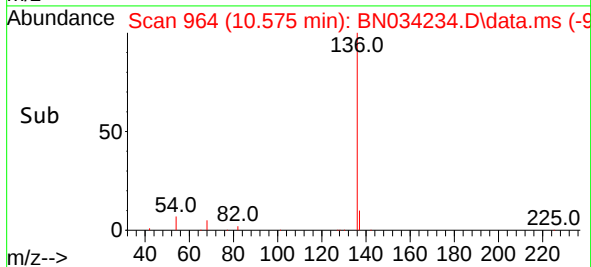
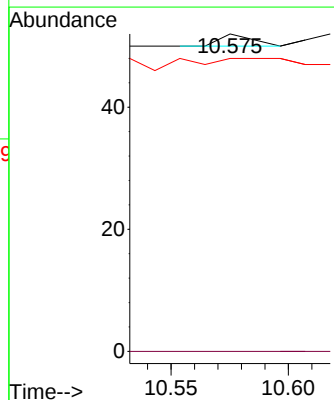
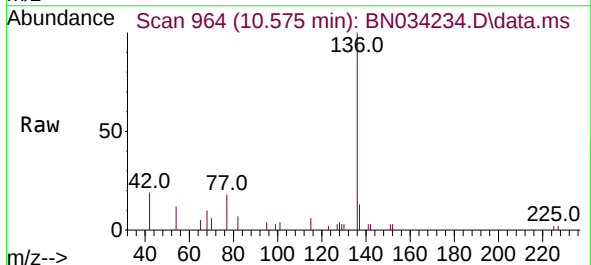
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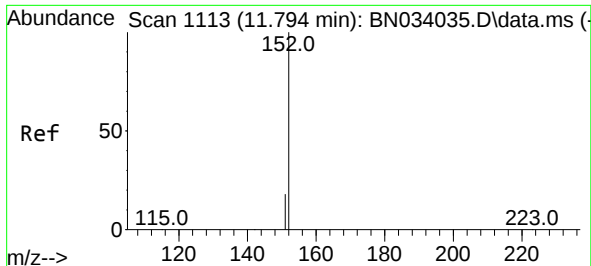
Tgt Ion:128 Resp: 18  
Ion Ratio Lower Upper  
128 100  
129 79.6 9.2 13.8#  
127 63.1 10.7 16.1#



#10  
Hexachlorobutadiene  
Concen: 0.298 ng  
RT: 10.575 min Scan# 964  
Delta R.T. 0.037 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

Tgt Ion:225 Resp: 2  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 0.0 50.5 75.7#

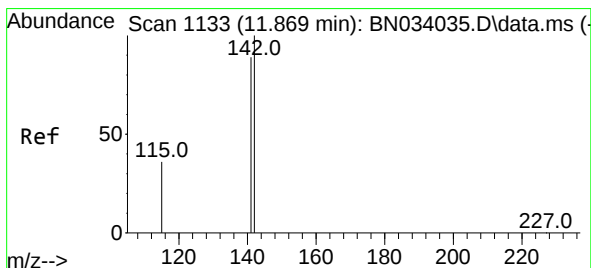
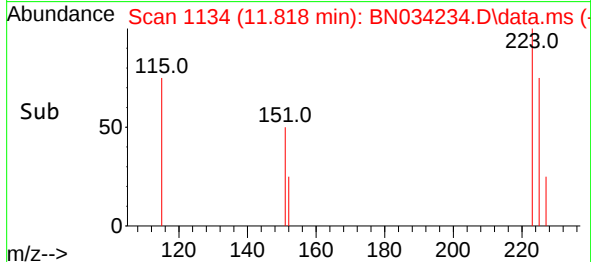
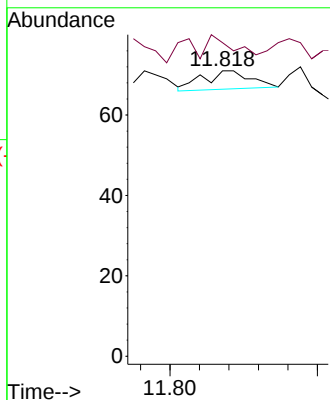
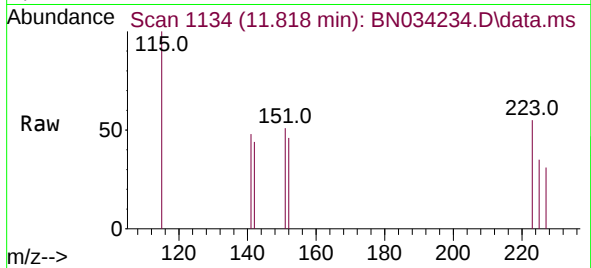




#11  
2-Methylnaphthalene-d10  
Concen: 0.260 ng  
RT: 11.818 min Scan# 1113  
Delta R.T. 0.024 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

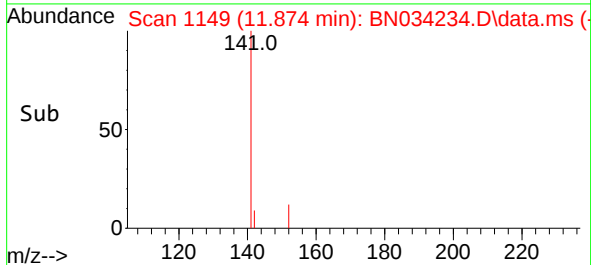
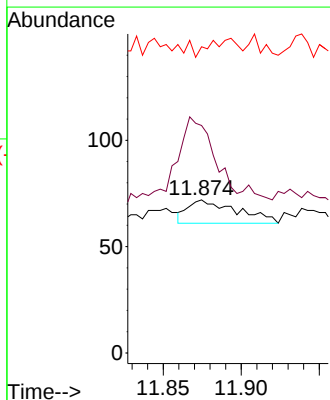
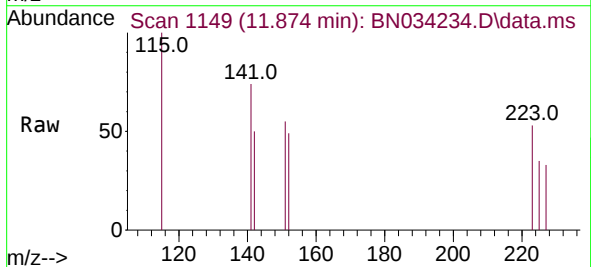
Instrument :  
BNA\_N  
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RE134D2-20240919

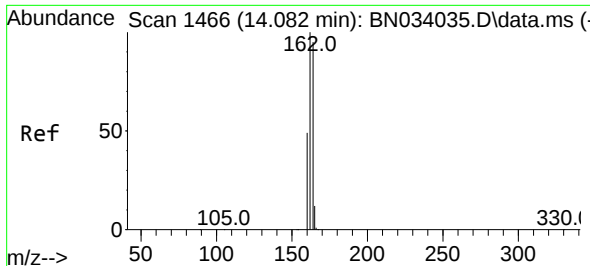
Tgt Ion:152 Resp: 5  
Ion Ratio Lower Upper  
152 100  
151 80.0 16.8 25.2#



#12  
2-Methylnaphthalene  
Concen: 1.034 ng  
RT: 11.874 min Scan# 1149  
Delta R.T. 0.005 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

Tgt Ion:142 Resp: 24  
Ion Ratio Lower Upper  
142 100  
141 148.6 71.6 107.4#  
115 200.0 30.0 45.0#

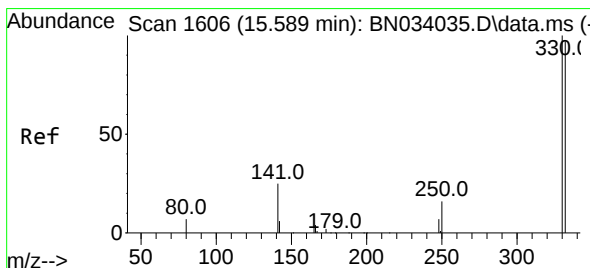
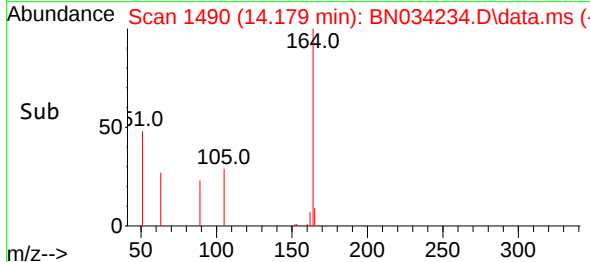
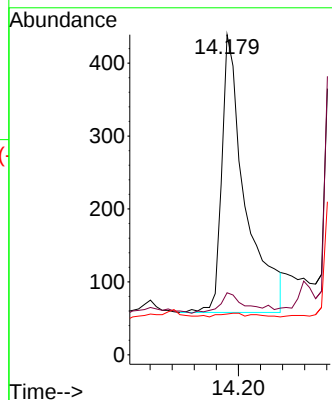
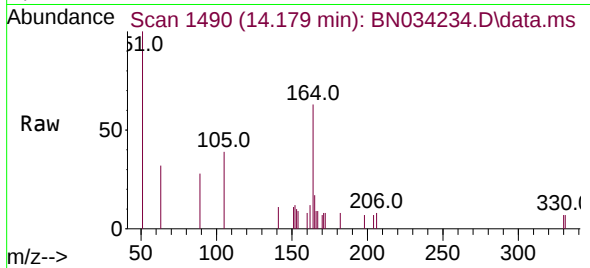




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.179 min Scan# 1466  
Delta R.T. 0.098 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

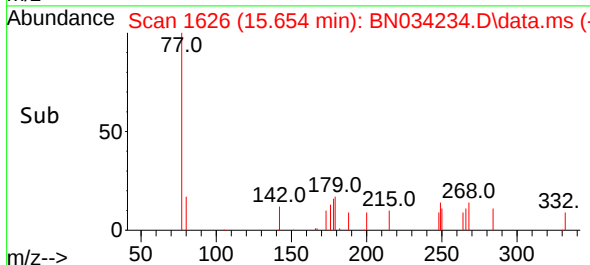
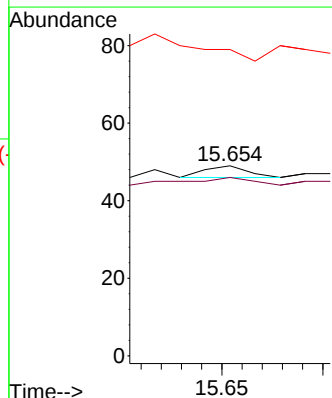
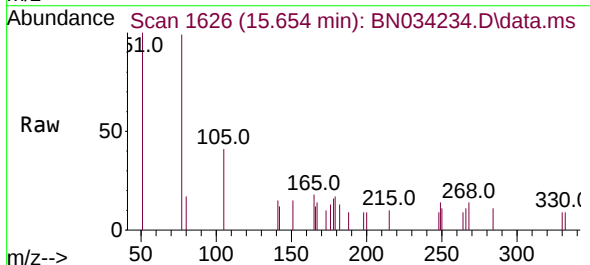
Instrument :  
BNA\_N  
ClientSampleId :  
RE134D2-20240919

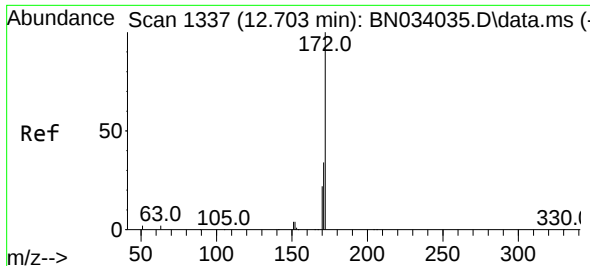
Tgt Ion:164 Resp: 1120  
Ion Ratio Lower Upper  
164 100  
162 19.4 84.2 126.2#  
160 12.8 41.7 62.5#



#14  
2,4,6-Tribromophenol  
Concen: 0.008 ng  
RT: 15.654 min Scan# 1626  
Delta R.T. 0.065 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

Tgt Ion:330 Resp: 4  
Ion Ratio Lower Upper  
330 100  
332 75.0 77.4 116.0#  
141 0.0 35.9 53.9#

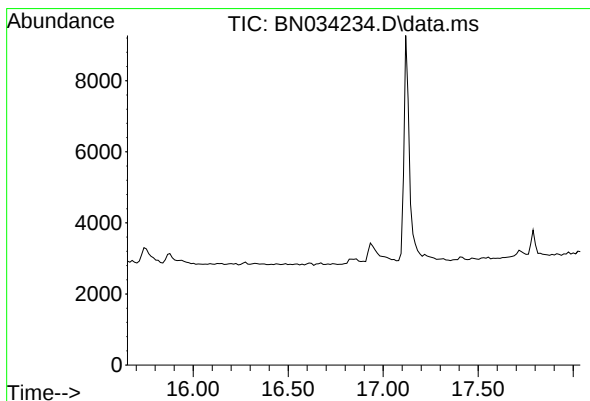
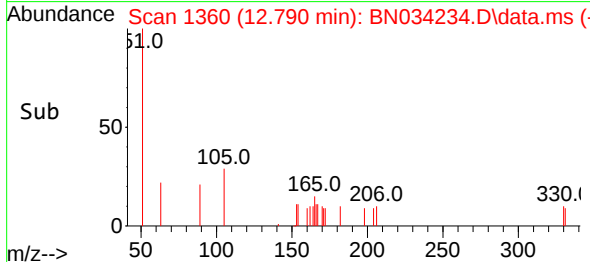
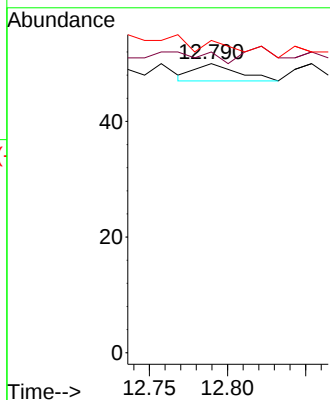
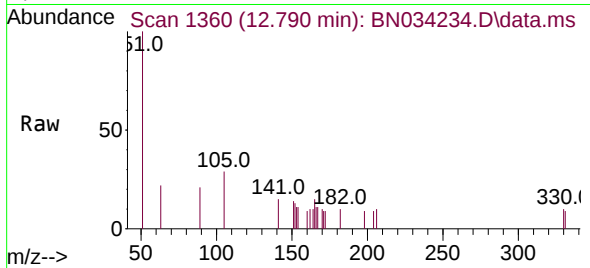




#15  
2-Fluorobiphenyl  
Concen: 0.001 ng  
RT: 12.790 min Scan# 11  
Delta R.T. 0.087 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

Instrument :  
BNA\_N  
ClientSampleId :  
RE134D2-20240919

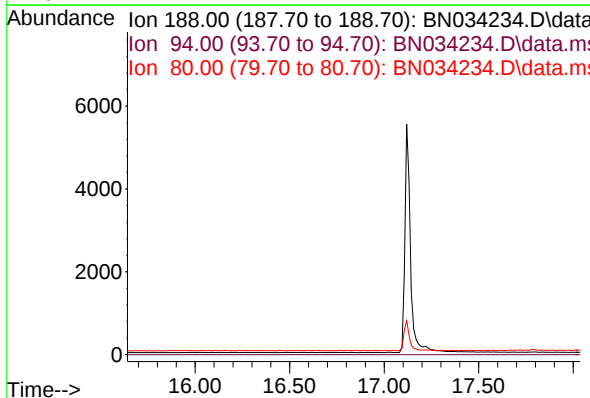
Tgt Ion:172 Resp: 6  
Ion Ratio Lower Upper  
172 100  
171 104.0 27.3 40.9#  
170 108.0 18.1 27.1#

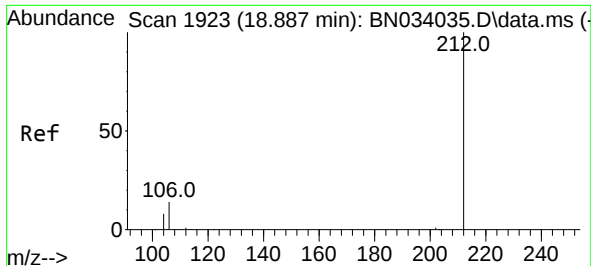


#19  
Phenanthrene-d10  
Concen: 0.000 ng  
Expected RT: 16.84 min

Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

Tgt Ion: 188  
Sig Exp Ratio  
188 100  
94 0.0  
80 9.2

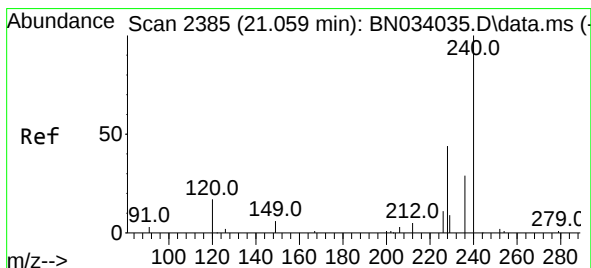
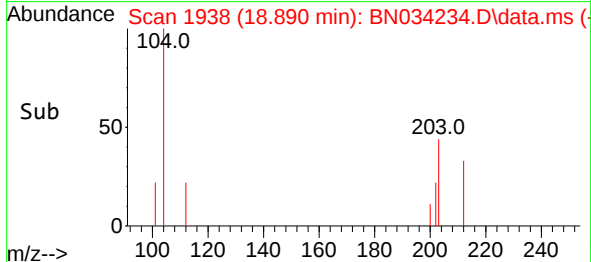
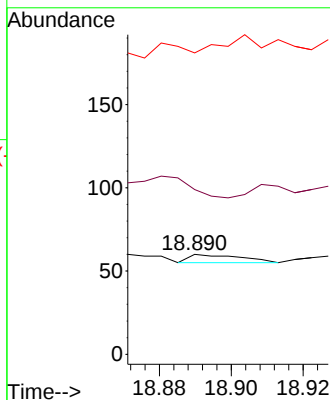
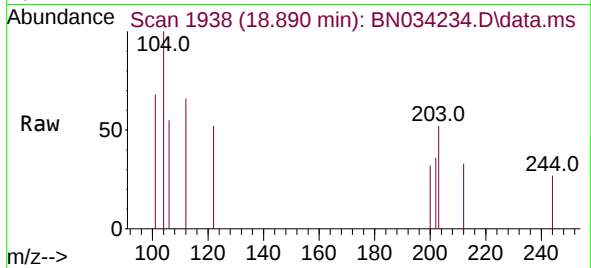




#27  
Fluoranthene-d10  
Concen: 0.000 ng  
RT: 18.890 min Scan# 1923  
Delta R.T. 0.003 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

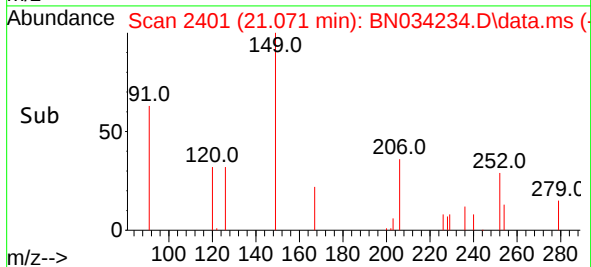
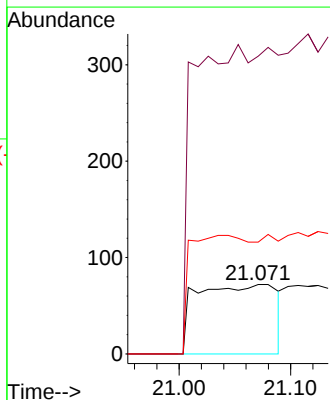
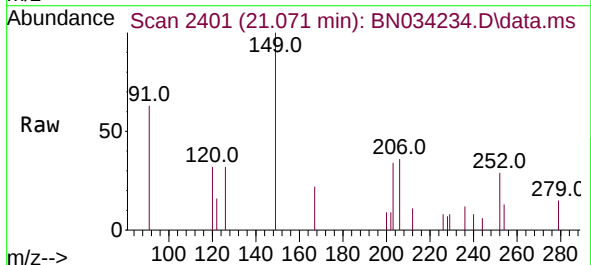
Instrument :  
BNA\_N  
ClientSampleId :  
RE134D2-20240919

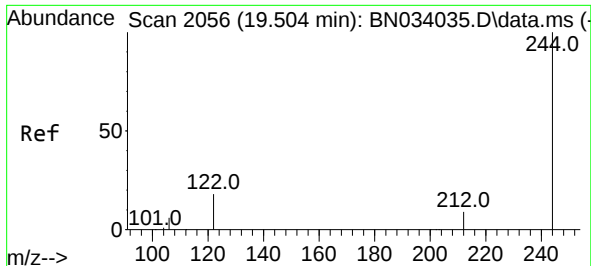
Tgt Ion:212 Resp: 5  
Ion Ratio Lower Upper  
212 100  
106 520.0 13.4 20.2#  
104 120.0 7.8 11.6#



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.071 min Scan# 2401  
Delta R.T. 0.012 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

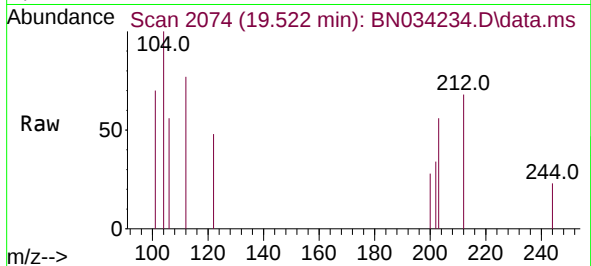
Tgt Ion:240 Resp: 332  
Ion Ratio Lower Upper  
240 100  
120 429.2 13.5 20.3#  
236 161.1 23.4 35.0#



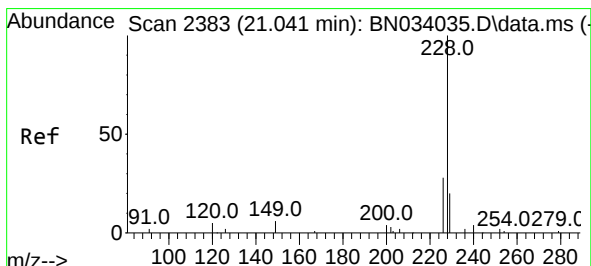
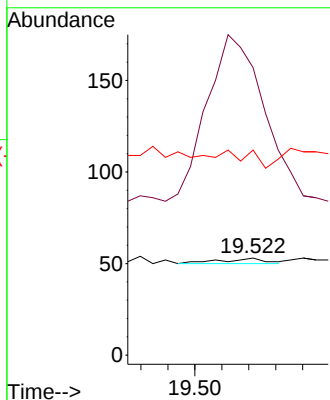
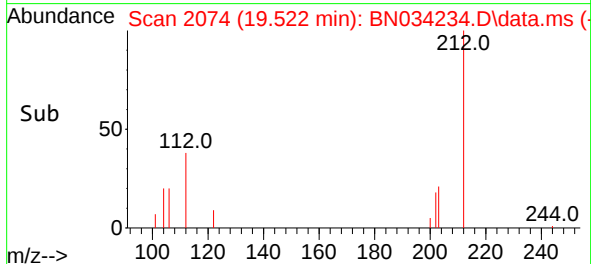


#31  
Terphenyl-d14  
Concen: 0.005 ng  
RT: 19.522 min Scan# 2056  
Delta R.T. 0.017 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

Instrument :  
BNA\_N  
ClientSampleId :  
RE134D2-20240919

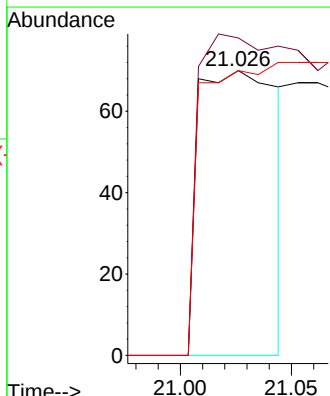
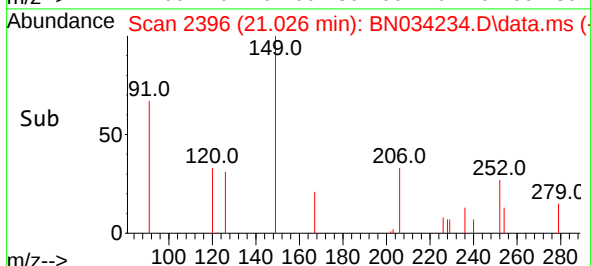
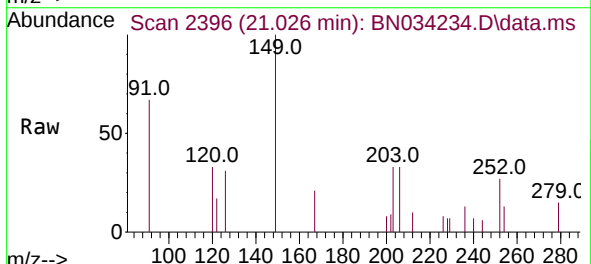


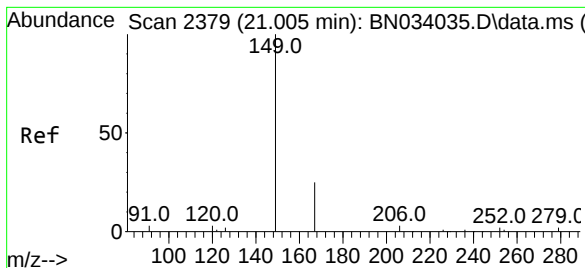
Tgt Ion:244 Resp: 3  
Ion Ratio Lower Upper  
244 100  
212 296.2 7.8 11.6#  
122 211.3 14.8 22.2#



#32  
Benzo(a)anthracene  
Concen: 0.145 ng  
RT: 21.026 min Scan# 2396  
Delta R.T. -0.015 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

Tgt Ion:228 Resp: 152  
Ion Ratio Lower Upper  
228 100  
226 111.4 22.3 33.5#  
229 100.0 15.7 23.5#

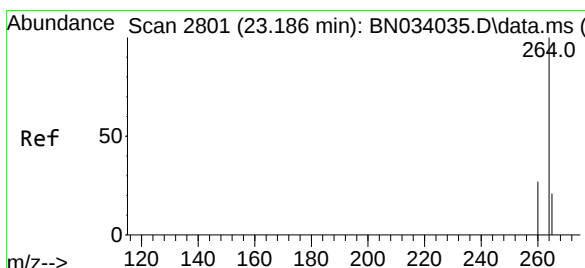
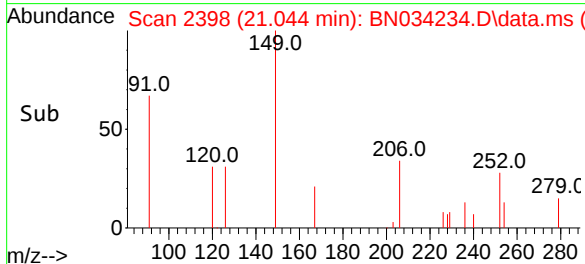
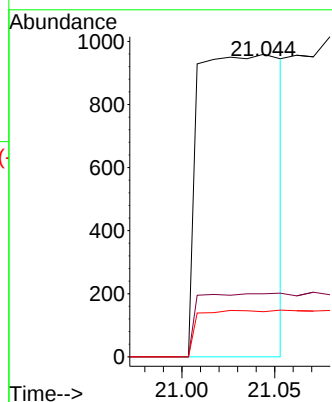
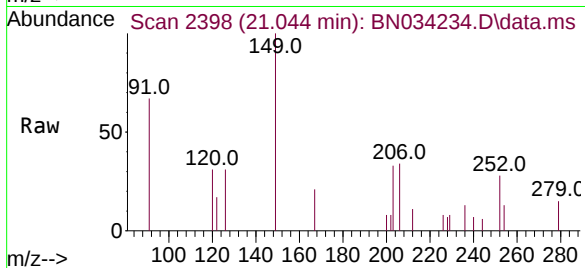




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 6.007 ng  
RT: 21.044 min Scan# 211  
Delta R.T. 0.039 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

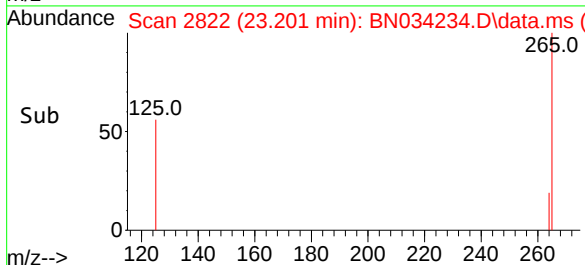
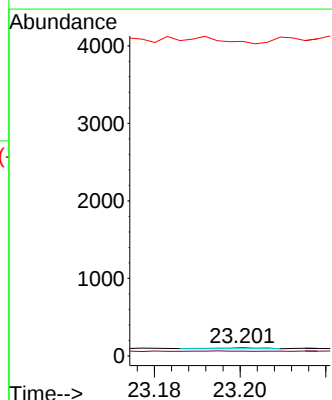
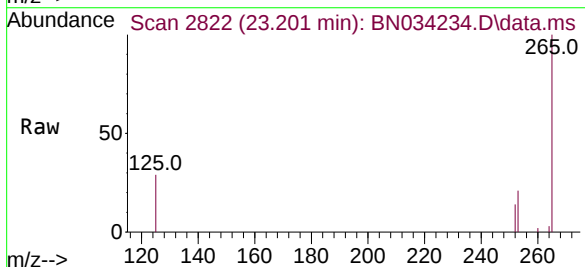
Instrument :  
BNA\_N  
ClientSampleId :  
RE134D2-20240919

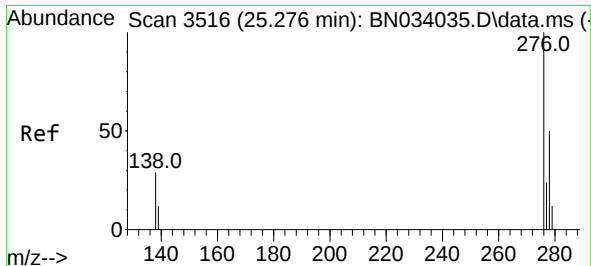
Tgt Ion:149 Resp: 2628  
Ion Ratio Lower Upper  
149 100  
167 9.0 19.9 29.9#  
279 12.3 4.6 6.8#



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.201 min Scan# 2822  
Delta R.T. 0.015 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

Tgt Ion:264 Resp: 9  
Ion Ratio Lower Upper  
264 100  
260 59.0 21.7 32.5#  
265 3863.8 52.1 78.1#

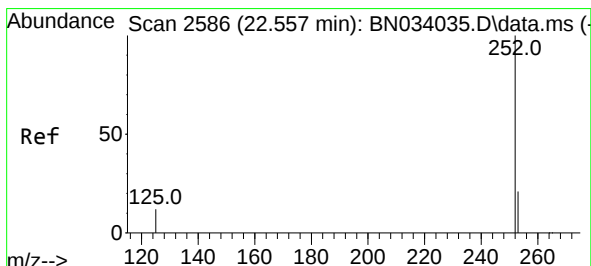
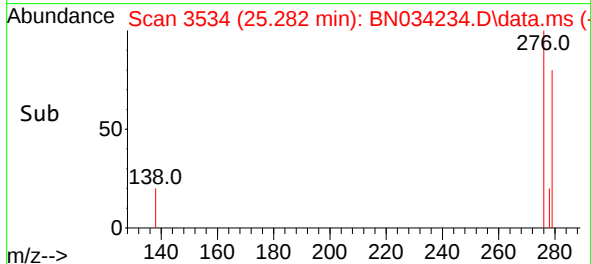
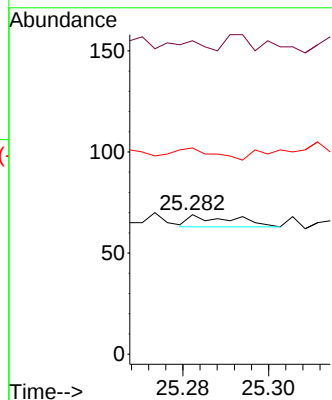
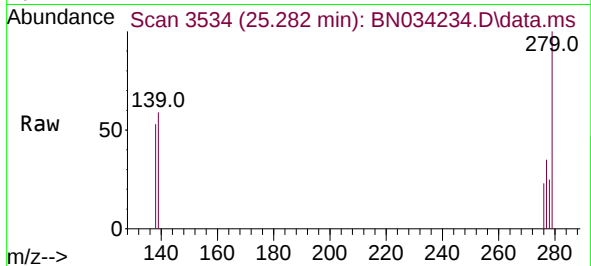




#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.104 ng  
RT: 25.282 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

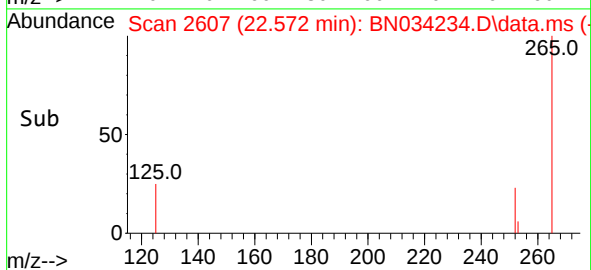
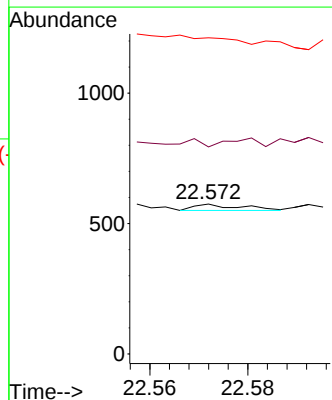
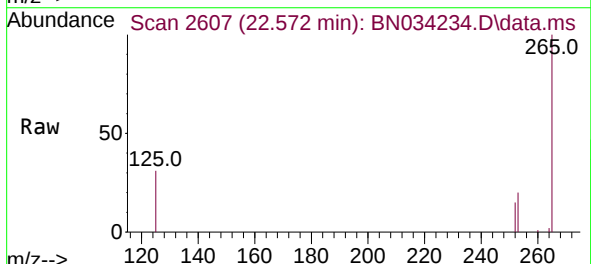
Instrument :  
BNA\_N  
ClientSampleId :  
RE134D2-20240919

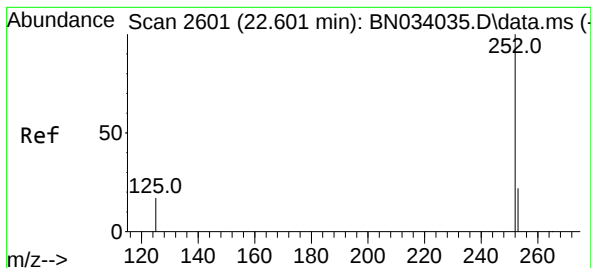
Tgt Ion:276 Resp: 4  
Ion Ratio Lower Upper  
276 100  
138 125.0 25.9 38.9#  
277 0.0 19.7 29.5#



#37  
Benzo(b)fluoranthene  
Concen: 0.454 ng  
RT: 22.572 min Scan# 2607  
Delta R.T. 0.015 min  
Lab File: BN034234.D  
Acq: 25 Sep 2024 20:46

Tgt Ion:252 Resp: 16  
Ion Ratio Lower Upper  
252 100  
253 138.1 19.6 29.4#  
125 210.8 13.8 20.8#





#38

Benzo(k)fluoranthene

Concen: 0.973 ng

RT: 22.622 min Scan# 2

Delta R.T. 0.021 min

Lab File: BN034234.D

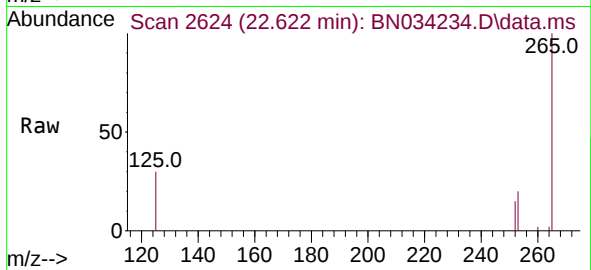
Acq: 25 Sep 2024 20:46

Instrument :

BNA\_N

ClientSampleId :

RE134D2-20240919



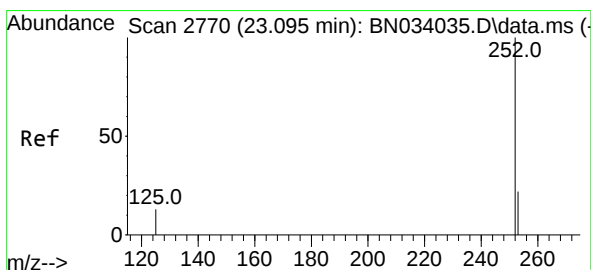
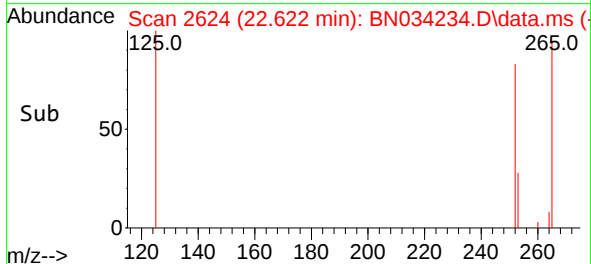
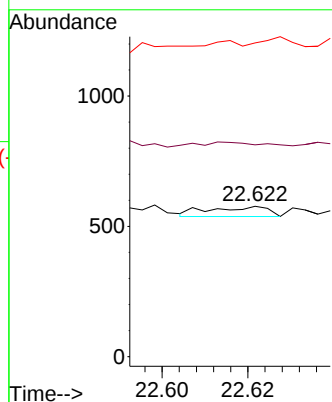
Tgt Ion:252 Resp: 36

Ion Ratio Lower Upper

252 100

253 140.9 20.1 30.1#

125 208.7 16.8 25.2#



#39

Benzo(a)pyrene

Concen: 0.348 ng

RT: 23.122 min Scan# 2795

Delta R.T. 0.026 min

Lab File: BN034234.D

Acq: 25 Sep 2024 20:46

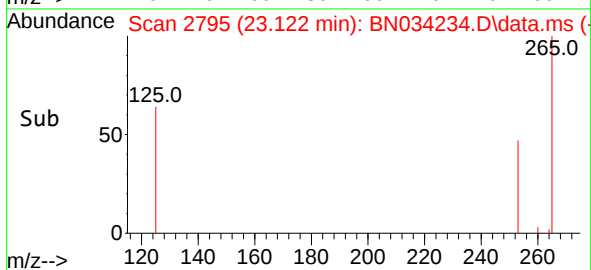
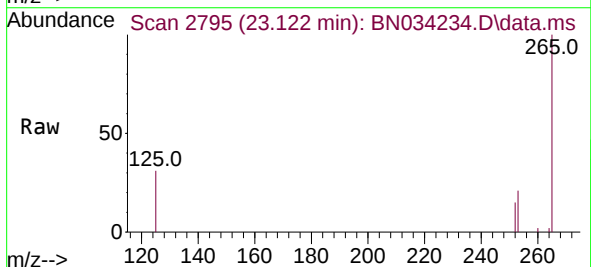
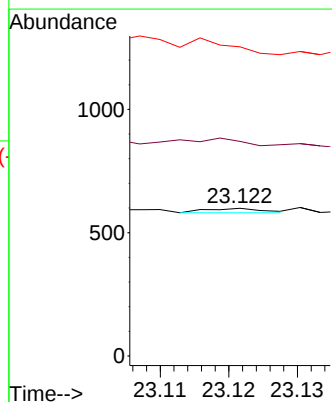
Tgt Ion:252 Resp: 10

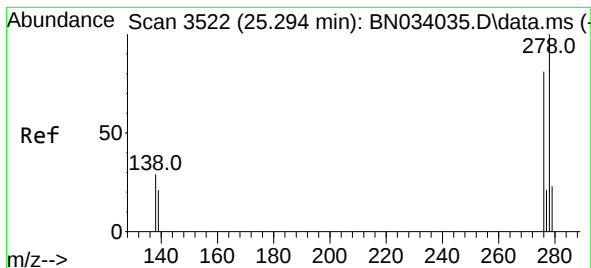
Ion Ratio Lower Upper

252 100

253 145.2 21.8 32.8#

125 209.3 17.5 26.3#





#40

Dibenzo(a,h)anthracene

Concen: 0.100 ng

RT: 25.303 min Scan# 3

Delta R.T. 0.009 min

Lab File: BN034234.D

Acq: 25 Sep 2024 20:46

Instrument :

BNA\_N

ClientSampleId :

RE134D2-20240919

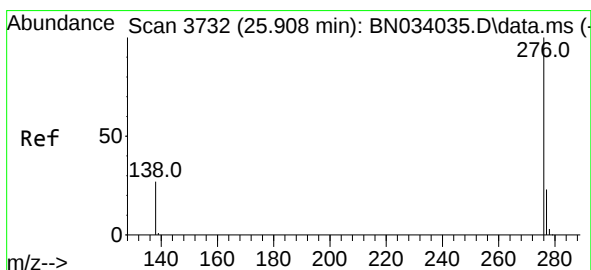
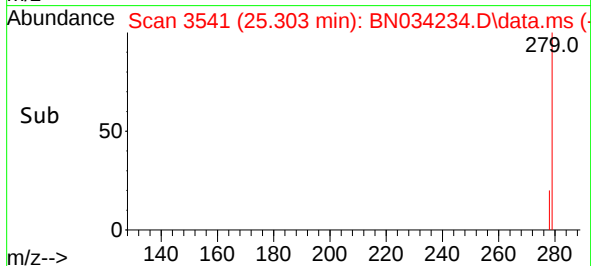
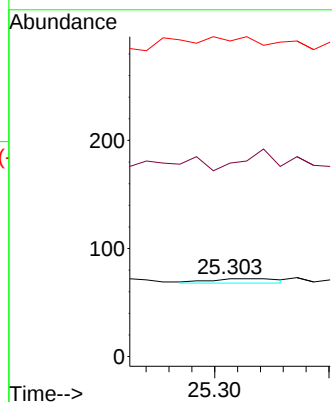
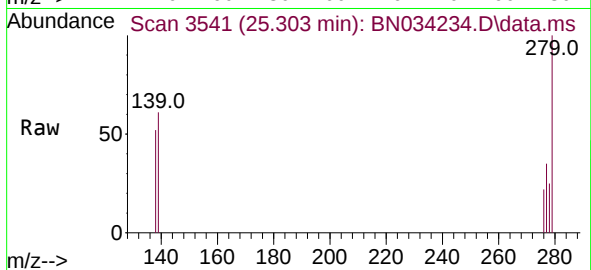
Tgt Ion:278 Resp: 3

Ion Ratio Lower Upper

278 100

139 248.6 17.8 26.8#

279 405.6 21.0 31.6#



#41

Benzo(g,h,i)perylene

Concen: 0.535 ng

RT: 25.911 min Scan# 3749

Delta R.T. 0.003 min

Lab File: BN034234.D

Acq: 25 Sep 2024 20:46

Tgt Ion:276 Resp: 18

Ion Ratio Lower Upper

276 100

277 110.8 19.3 28.9#

138 171.0 22.6 34.0#

