

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN082024\  
 Data File : BN033530.D  
 Acq On : 21 Aug 2024 07:03  
 Operator : MA/JU  
 Sample : P3643-01  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 932-K1-SD-0-0.5-081524

Quant Time: Aug 21 07:27:13 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081924.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 19 23:32:18 2024  
 Response via : Initial Calibration

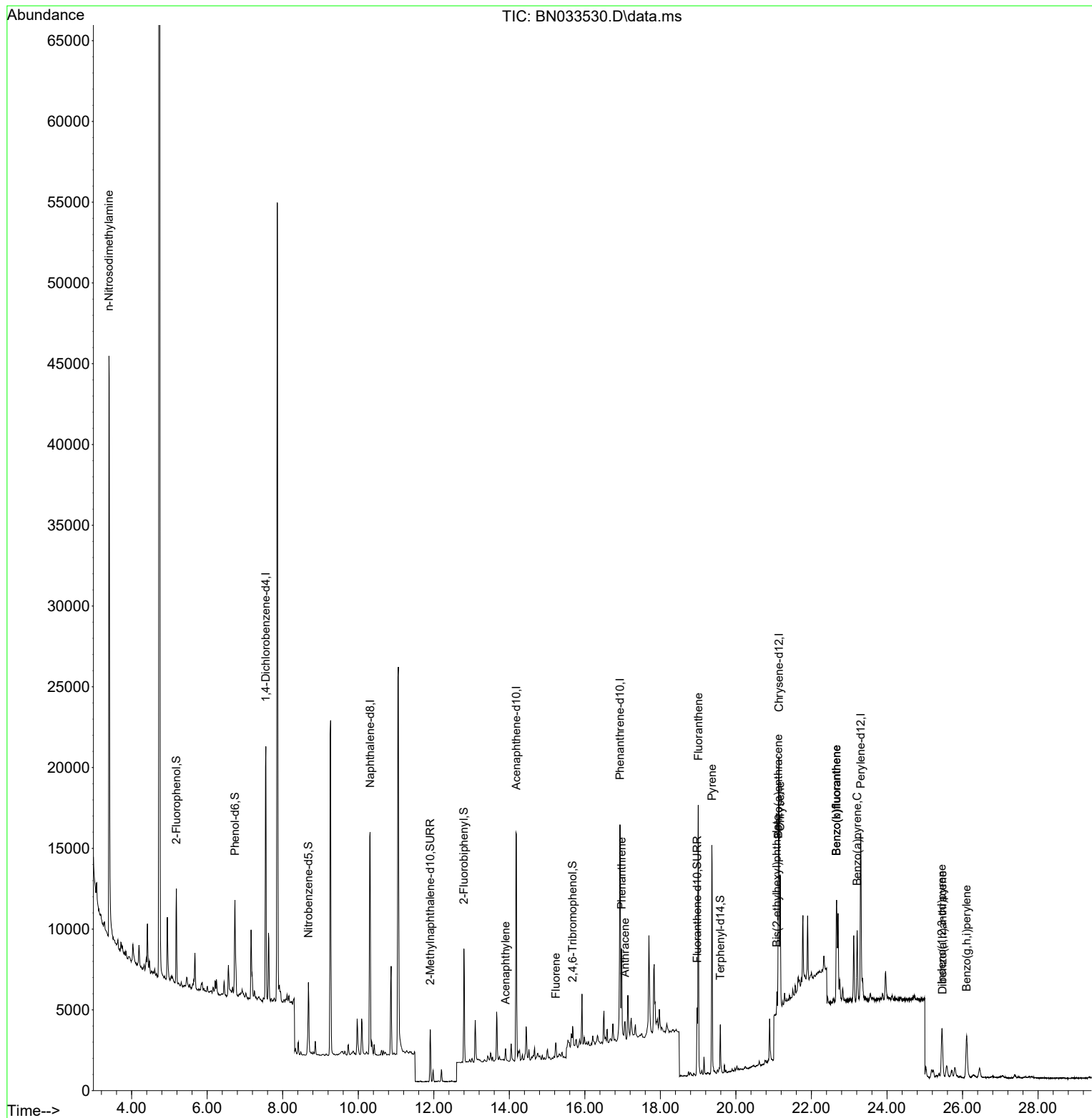
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.552  | 152  | 7280     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.314 | 136  | 18950    | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 14.189 | 164  | 8670     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.929 | 188  | 17003    | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 21.139 | 240  | 12146    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.306 | 264  | 12923    | 0.400 | ng    | -0.01    |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.183  | 112  | 4057     | 0.175 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.736  | 99   | 4881     | 0.177 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.681  | 82   | 3228     | 0.205 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.907 | 152  | 4299     | 0.159 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.676 | 330  | 604      | 0.130 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.799 | 172  | 5808     | 0.164 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 18.975 | 212  | 4570     | 0.112 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.588 | 244  | 2681     | 0.097 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 3) n-Nitrosodimethylamine     | 3.399  | 42   | 5722     | 0.587 | ng    | # 1      |
| 16) Acenaphthylene            | 13.900 | 152  | 777      | 0.020 | ng    | 97       |
| 18) Fluorene                  | 15.236 | 166  | 772      | 0.023 | ng    | # 57     |
| 25) Phenanthrene              | 16.979 | 178  | 6255     | 0.132 | ng    | 99       |
| 26) Anthracene                | 17.066 | 178  | 924      | 0.022 | ng    | # 90     |
| 28) Fluoranthene              | 19.003 | 202  | 14231    | 0.272 | ng    | 100      |
| 30) Pyrene                    | 19.365 | 202  | 12734    | 0.235 | ng    | 96       |
| 32) Benzo(a)anthracene        | 21.121 | 228  | 5120     | 0.117 | ng    | 94       |
| 33) Chrysene                  | 21.175 | 228  | 7716     | 0.177 | ng    | 96       |
| 34) Bis(2-ethylhexyl)phtha... | 21.085 | 149  | 1714     | 0.062 | ng    | # 92     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.455 | 276  | 4566     | 0.085 | ng    | 96       |
| 37) Benzo(b)fluoranthene      | 22.665 | 252  | 9829     | 0.204 | ng    | # 80     |
| 38) Benzo(k)fluoranthene      | 22.665 | 252  | 9829     | 0.207 | ng    | # 82     |
| 39) Benzo(a)pyrene            | 23.212 | 252  | 5741     | 0.144 | ng    | # 75     |
| 40) Dibenzo(a,h)anthracene    | 25.469 | 278  | 1039     | 0.024 | ng    | # 18     |
| 41) Benzo(g,h,i)perylene      | 26.109 | 276  | 5085     | 0.111 | ng    | # 89     |
| -----                         |        |      |          |       |       |          |

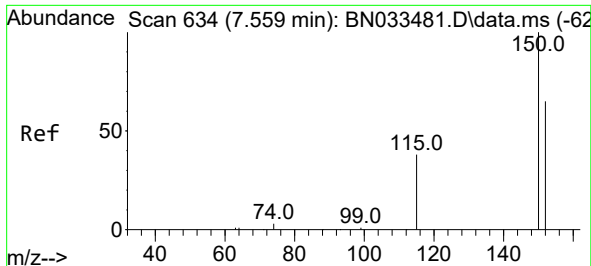
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN082024\  
Data File : BN033530.D  
Acq On : 21 Aug 2024 07:03  
Operator : MA/JU  
Sample : P3643-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
932-K1-SD-0-0.5-081524

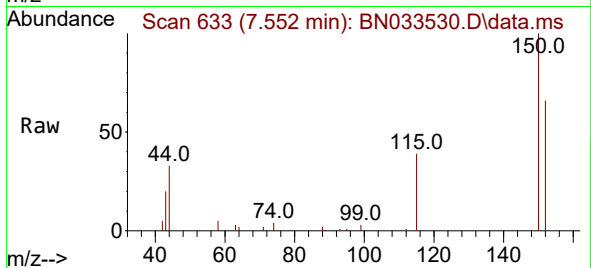
Quant Time: Aug 21 07:27:13 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081924.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 19 23:32:18 2024  
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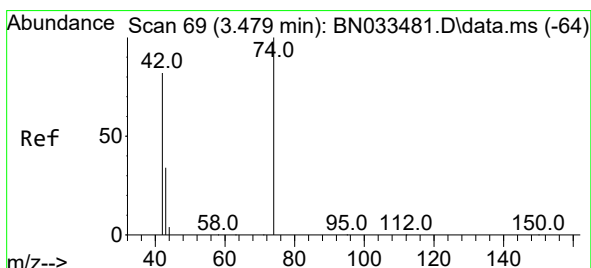
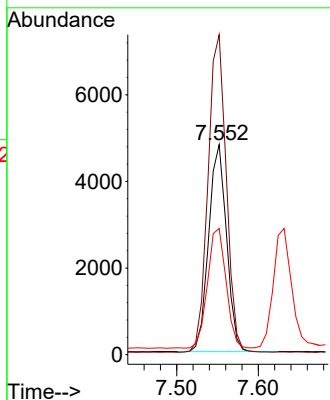
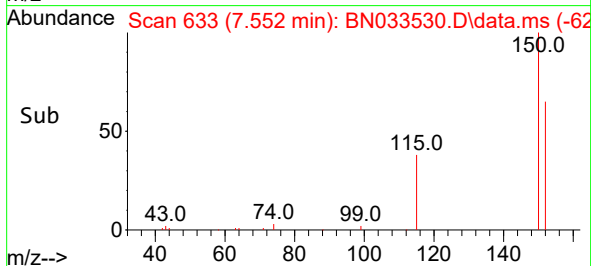


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.552 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN033530.D  
Acq: 21 Aug 2024 07:03

Instrument :  
BNA\_N  
ClientSampleId :  
932-K1-SD-0-0.5-081524

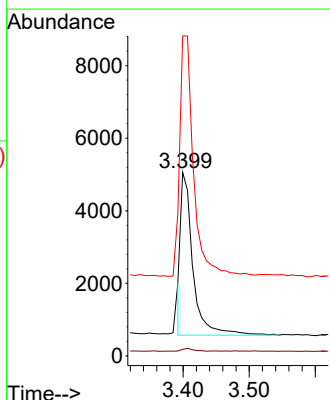
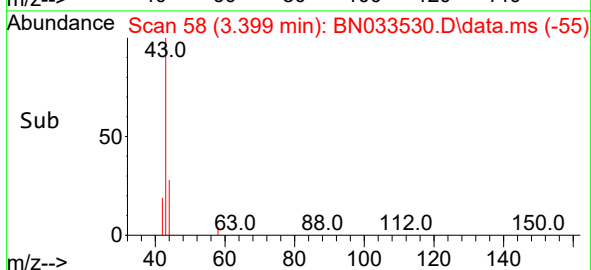
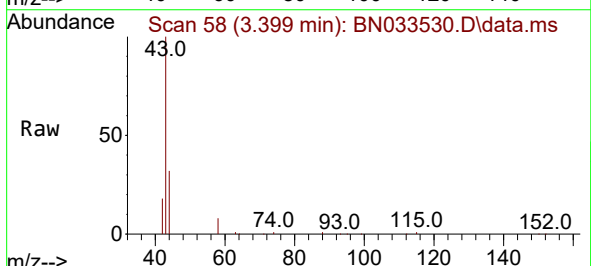


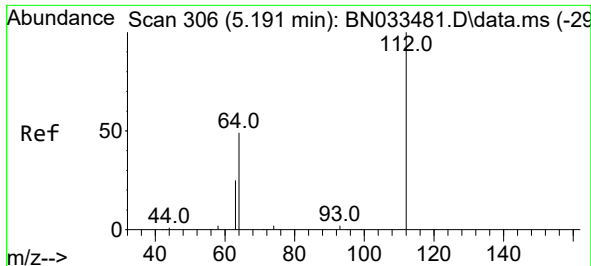
Tgt Ion:152 Resp: 7280  
Ion Ratio Lower Upper  
152 100  
150 152.4 122.2 183.2  
115 60.1 47.2 70.8



#3  
n-Nitrosodimethylamine  
Concen: 0.587 ng  
RT: 3.399 min Scan# 58  
Delta R.T. -0.080 min  
Lab File: BN033530.D  
Acq: 21 Aug 2024 07:03

Tgt Ion: 42 Resp: 5722  
Ion Ratio Lower Upper  
42 100  
74 1.3 100.2 150.2#  
44 151.3 5.3 7.9#

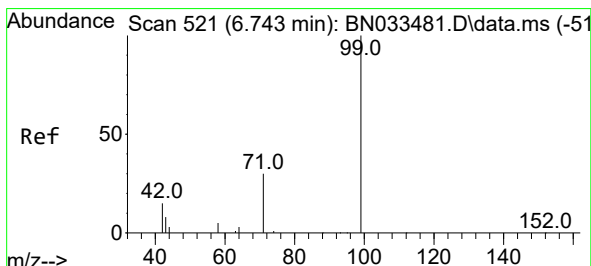
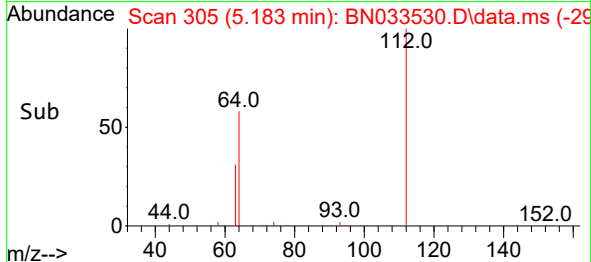
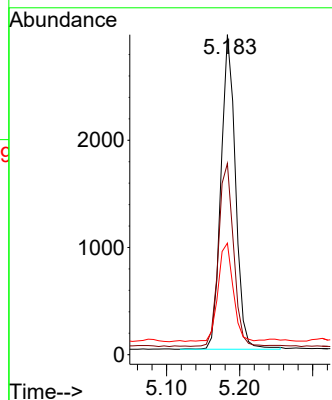
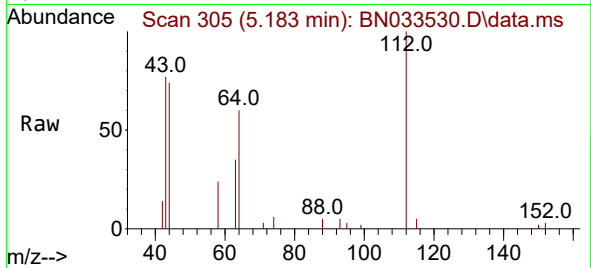




#4  
2-Fluorophenol  
Concen: 0.175 ng  
RT: 5.183 min Scan# 306  
Delta R.T. -0.007 min  
Lab File: BN033530.D  
Acq: 21 Aug 2024 07:03

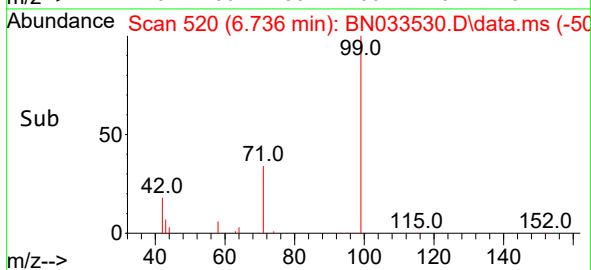
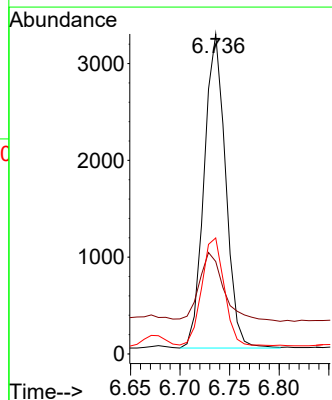
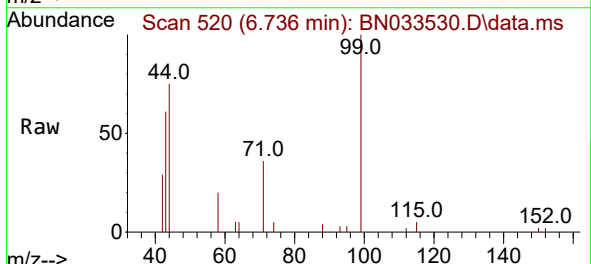
Instrument :  
BNA\_N  
ClientSampleId :  
932-K1-SD-0-0.5-081524

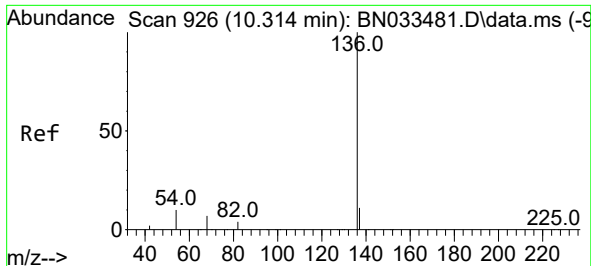
Tgt Ion:112 Resp: 4057  
Ion Ratio Lower Upper  
112 100  
64 60.1 47.1 70.7  
63 32.1 24.9 37.3



#5  
Phenol-d6  
Concen: 0.177 ng  
RT: 6.736 min Scan# 520  
Delta R.T. -0.007 min  
Lab File: BN033530.D  
Acq: 21 Aug 2024 07:03

Tgt Ion: 99 Resp: 4881  
Ion Ratio Lower Upper  
99 100  
42 25.5 16.6 24.8#  
71 35.9 26.2 39.4

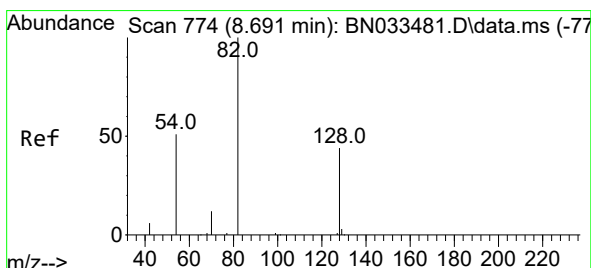
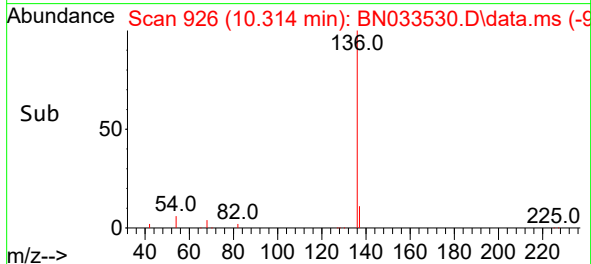
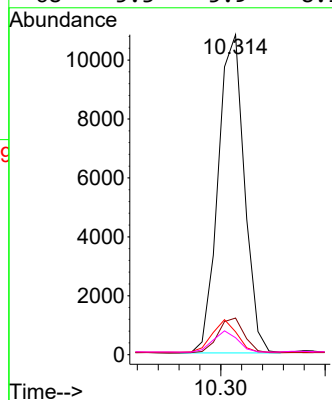
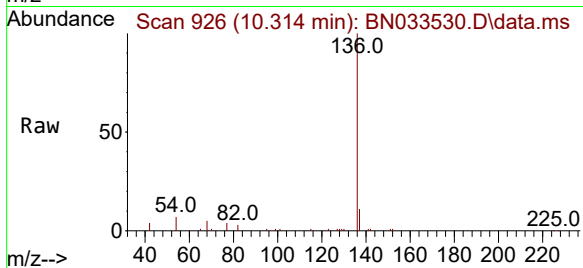




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.314 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BN033530.D  
Acq: 21 Aug 2024 07:03

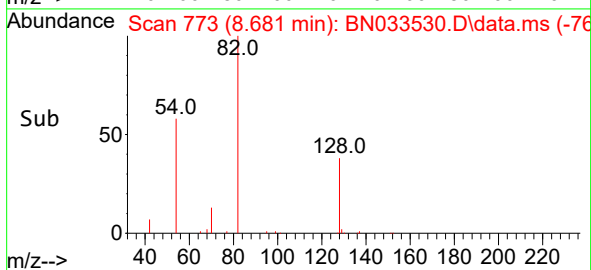
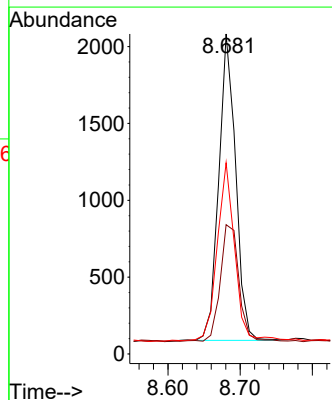
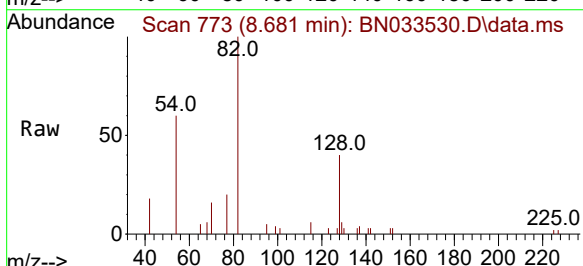
Instrument :  
BNA\_N  
ClientSampleId :  
932-K1-SD-0-0.5-081524

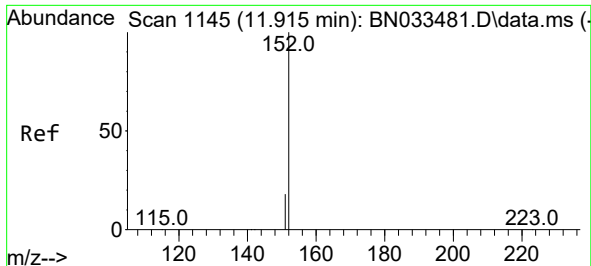
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 18950 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 11.4  | 9.0   | 13.6  |
| 54        | 7.1   | 8.3   | 12.5# |
| 68        | 5.3   | 5.9   | 8.9#  |



#8  
Nitrobenzene-d5  
Concen: 0.205 ng  
RT: 8.681 min Scan# 773  
Delta R.T. -0.011 min  
Lab File: BN033530.D  
Acq: 21 Aug 2024 07:03

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 3228 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 40.4  | 36.0  | 54.0 |
| 54        | 59.8  | 42.0  | 63.0 |





#11

2-Methylnaphthalene-d10

Concen: 0.159 ng

RT: 11.907 min Scan# 1143

Delta R.T. -0.008 min

Lab File: BN033530.D

Acq: 21 Aug 2024 07:03

Instrument :

BNA\_N

ClientSampleId :

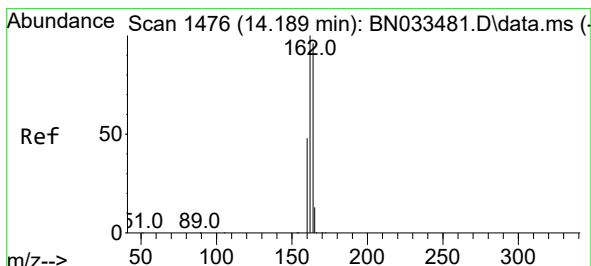
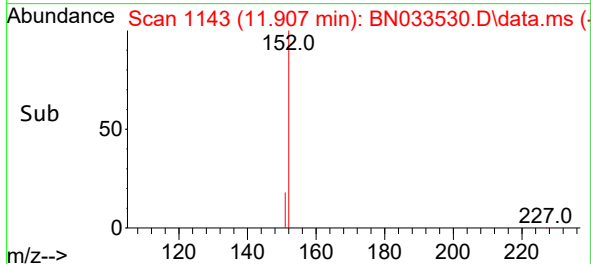
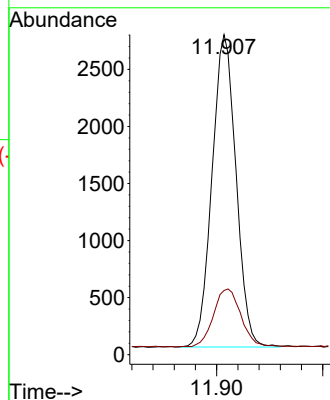
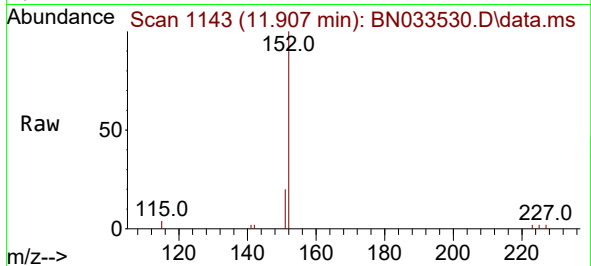
932-K1-SD-0-0.5-081524

Tgt Ion:152 Resp: 4299

Ion Ratio Lower Upper

152 100

151 21.4 16.6 25.0



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.189 min Scan# 1476

Delta R.T. -0.000 min

Lab File: BN033530.D

Acq: 21 Aug 2024 07:03

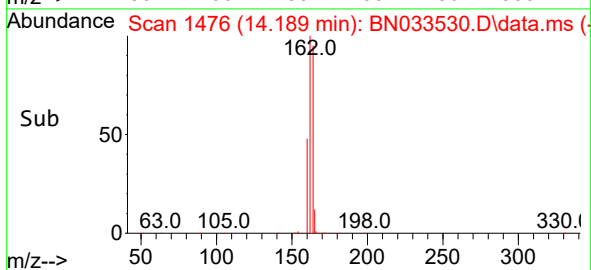
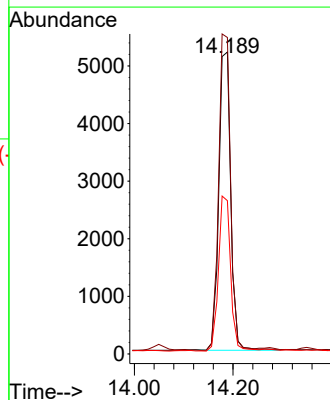
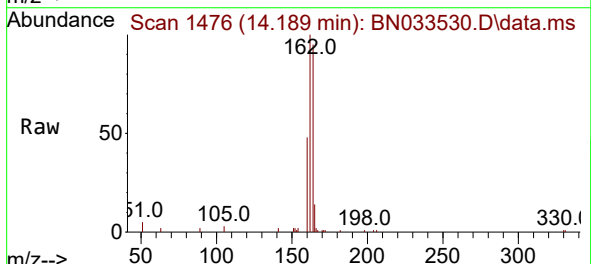
Tgt Ion:164 Resp: 8670

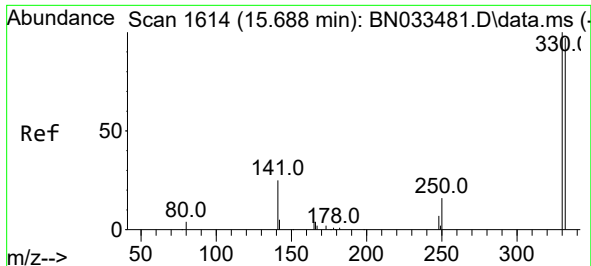
Ion Ratio Lower Upper

164 100

162 104.8 83.5 125.3

160 50.8 40.2 60.4

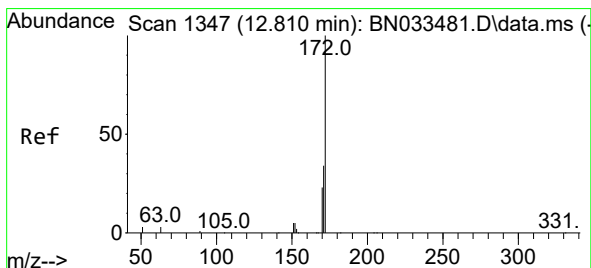
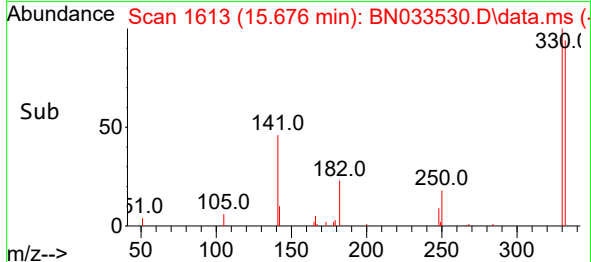
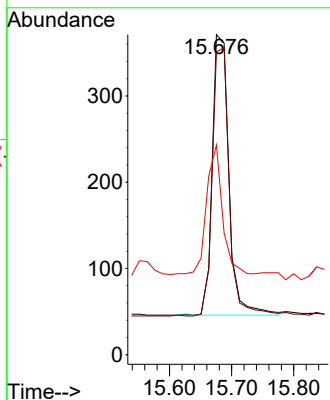
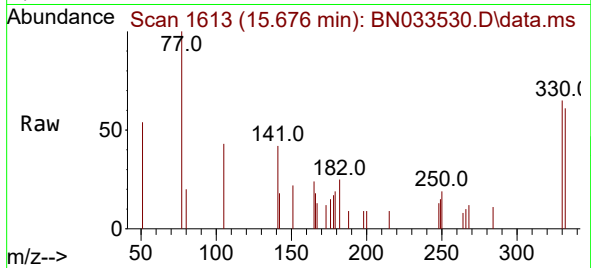




#14  
2,4,6-Tribromophenol  
Concen: 0.130 ng  
RT: 15.676 min Scan# 1613  
Delta R.T. -0.013 min  
Lab File: BN033530.D  
Acq: 21 Aug 2024 07:03

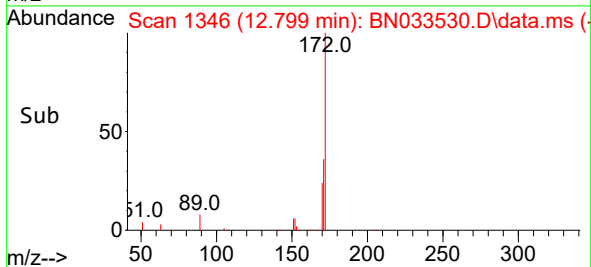
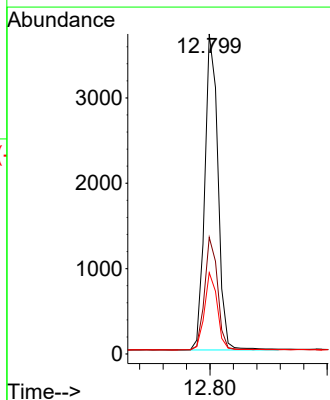
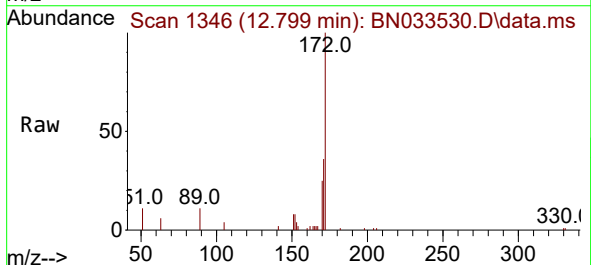
Instrument :  
BNA\_N  
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932-K1-SD-0-0.5-081524

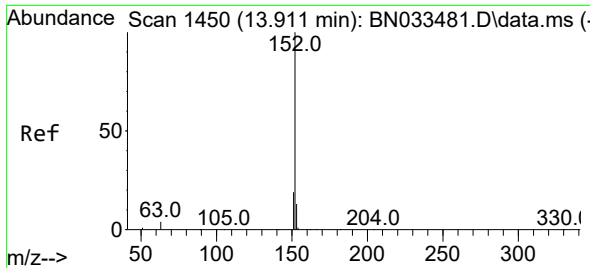
Tgt Ion:330 Resp: 604  
Ion Ratio Lower Upper  
330 100  
332 96.5 77.5 116.3  
141 42.7 33.9 50.9



#15  
2-Fluorobiphenyl  
Concen: 0.164 ng  
RT: 12.799 min Scan# 1346  
Delta R.T. -0.011 min  
Lab File: BN033530.D  
Acq: 21 Aug 2024 07:03

Tgt Ion:172 Resp: 5808  
Ion Ratio Lower Upper  
172 100  
171 36.4 27.7 41.5  
170 25.4 18.3 27.5

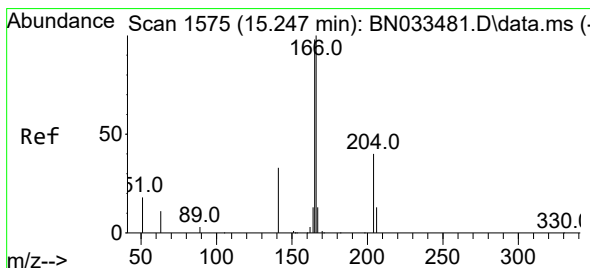
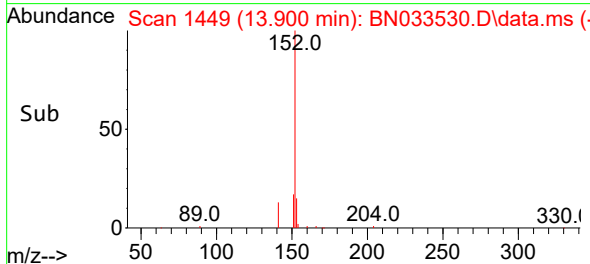
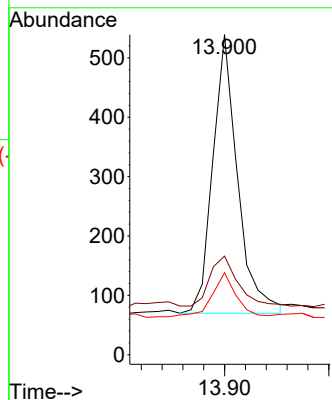
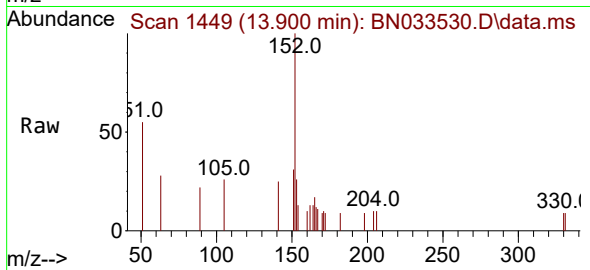




#16  
Acenaphthylene  
Concen: 0.020 ng  
RT: 13.900 min Scan# 1450  
Delta R.T. -0.011 min  
Lab File: BN033530.D  
Acq: 21 Aug 2024 07:03

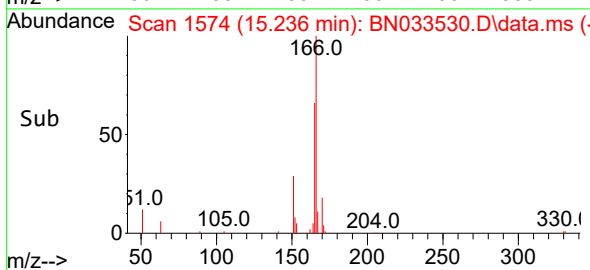
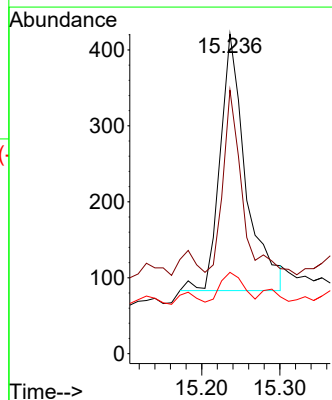
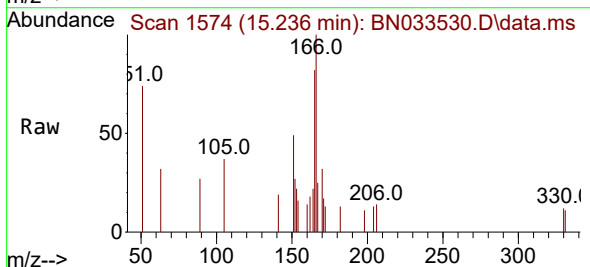
Instrument :  
BNA\_N  
ClientSampleId :  
932-K1-SD-0-0.5-081524

|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:152 | Resp: | 777   |       |
| Ion         | Ratio | Lower | Upper |
| 152         | 100   |       |       |
| 151         | 20.1  | 15.7  | 23.5  |
| 153         | 15.3  | 10.3  | 15.5  |

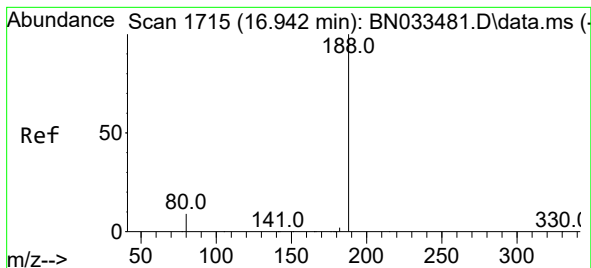


#18  
Fluorene  
Concen: 0.023 ng  
RT: 15.236 min Scan# 1574  
Delta R.T. -0.011 min  
Lab File: BN033530.D  
Acq: 21 Aug 2024 07:03

|             |       |       |        |
|-------------|-------|-------|--------|
| Tgt Ion:166 | Resp: | 772   |        |
| Ion         | Ratio | Lower | Upper  |
| 166         | 100   |       |        |
| 165         | 50.4  | 78.2  | 117.4# |
| 167         | 10.1  | 10.6  | 16.0#  |







#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.929 min Scan# 1714

Delta R.T. -0.013 min

Lab File: BN033530.D

Acq: 21 Aug 2024 07:03

Instrument :

BNA\_N

ClientSampleId :

932-K1-SD-0-0.5-081524

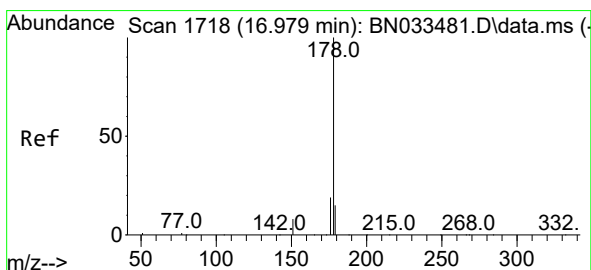
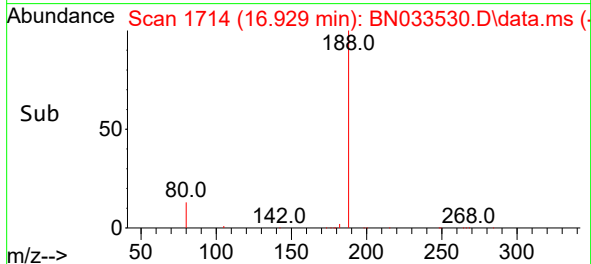
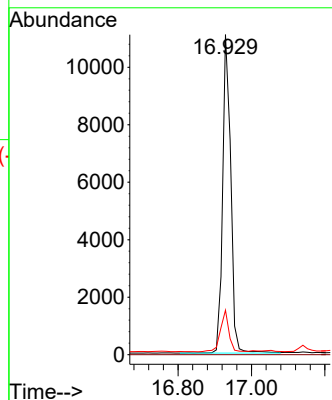
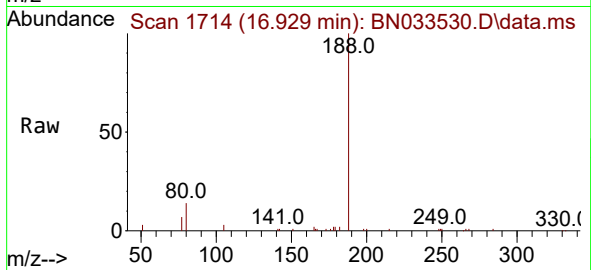
Tgt Ion:188 Resp: 17003

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.9 7.8 11.8#



#25

Phenanthrene

Concen: 0.132 ng

RT: 16.979 min Scan# 1718

Delta R.T. -0.000 min

Lab File: BN033530.D

Acq: 21 Aug 2024 07:03

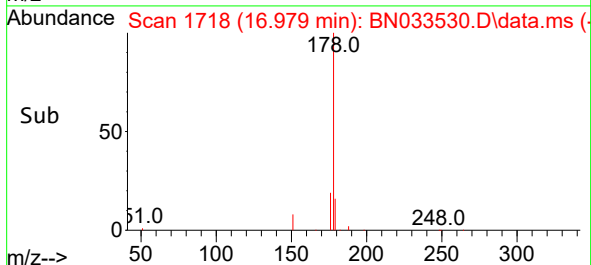
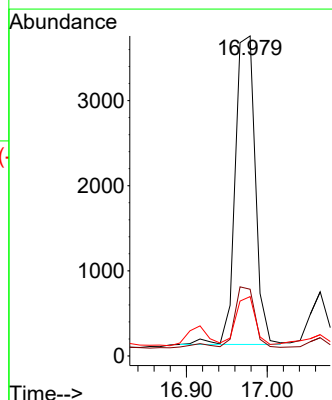
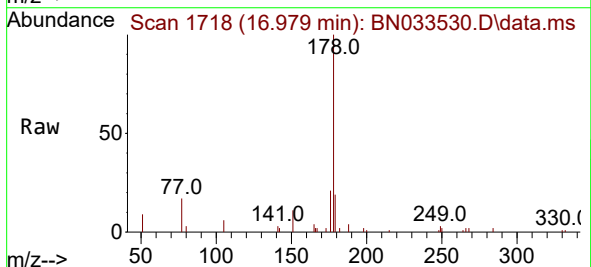
Tgt Ion:178 Resp: 6255

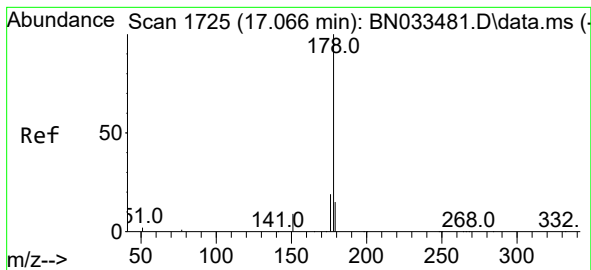
Ion Ratio Lower Upper

178 100

176 18.9 15.3 22.9

179 14.7 12.3 18.5





#26

Anthracene

Concen: 0.022 ng

RT: 17.066 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN033530.D

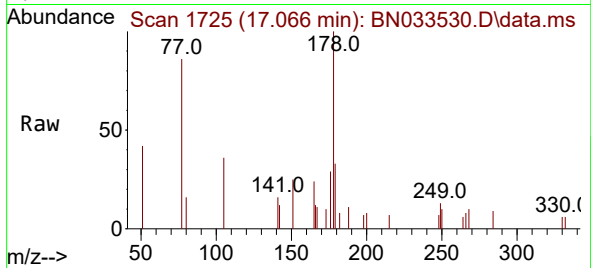
Acq: 21 Aug 2024 07:03

Instrument :

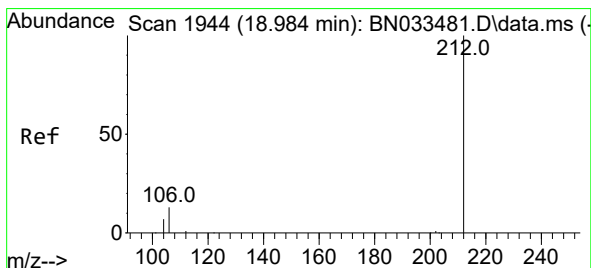
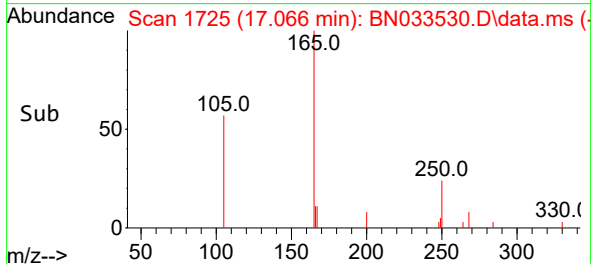
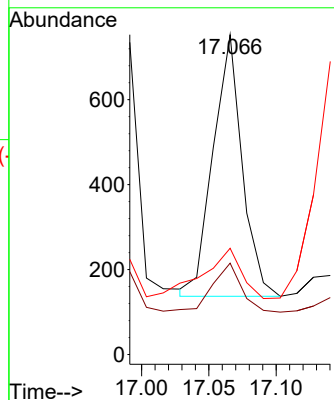
BNA\_N

ClientSampleId :

932-K1-SD-0-0.5-081524



|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 178  | Resp: | 924   |
| Ion Ratio | 100  | Lower | Upper |
| 178       | 100  |       |       |
| 176       | 18.7 | 15.0  | 22.6  |
| 179       | 24.9 | 12.4  | 18.6  |



#27

Fluoranthene-d10

Concen: 0.112 ng

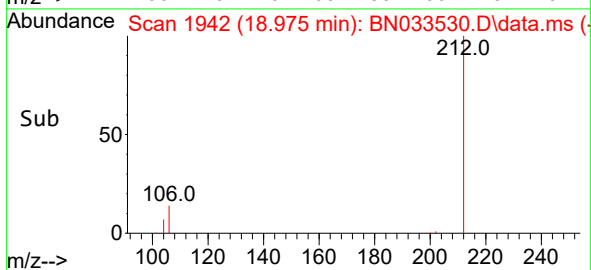
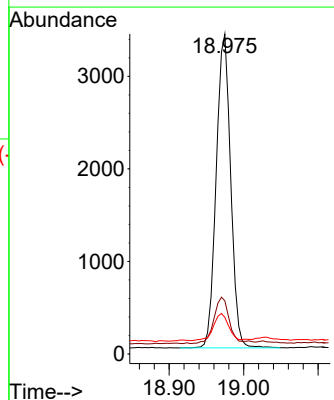
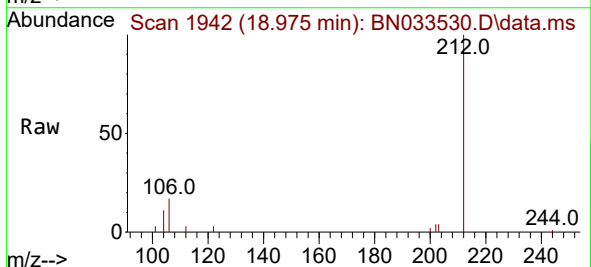
RT: 18.975 min Scan# 1942

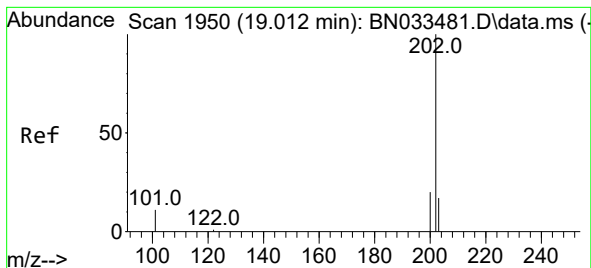
Delta R.T. -0.009 min

Lab File: BN033530.D

Acq: 21 Aug 2024 07:03

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 212  | Resp: | 4570  |
| Ion Ratio | 100  | Lower | Upper |
| 212       | 100  |       |       |
| 106       | 16.0 | 12.3  | 18.5  |
| 104       | 9.2  | 7.0   | 10.4  |





#28

Fluoranthene

Concen: 0.272 ng

RT: 19.003 min Scan# 1948

Delta R.T. -0.009 min

Lab File: BN033530.D

Acq: 21 Aug 2024 07:03

Instrument :

BNA\_N

ClientSampleId :

932-K1-SD-0-0.5-081524

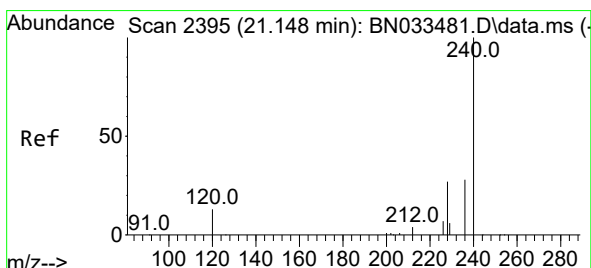
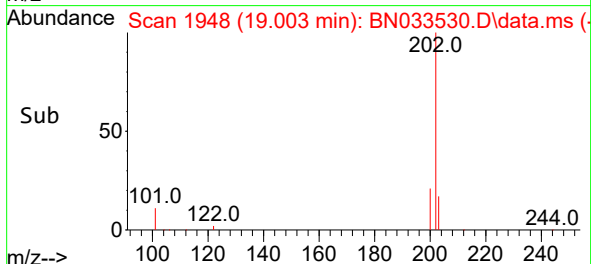
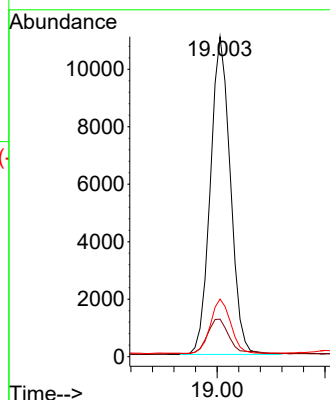
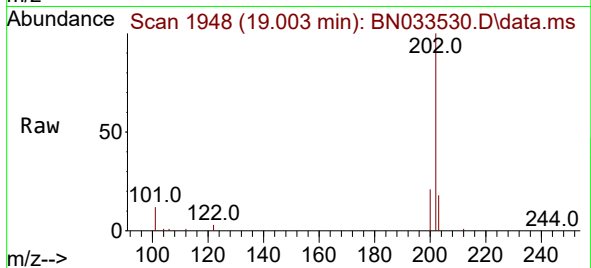
Tgt Ion:202 Resp: 14231

Ion Ratio Lower Upper

202 100

101 12.1 9.5 14.3

203 17.1 13.8 20.6



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.139 min Scan# 2394

Delta R.T. -0.009 min

Lab File: BN033530.D

Acq: 21 Aug 2024 07:03

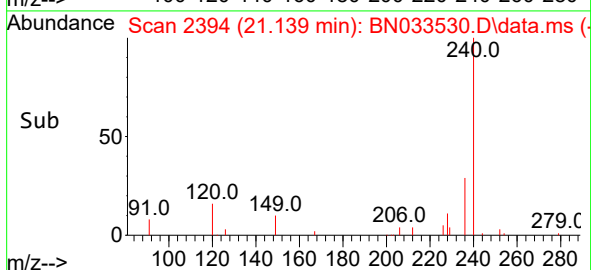
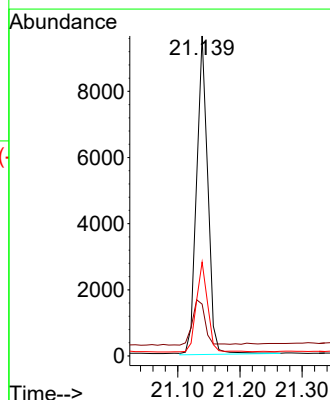
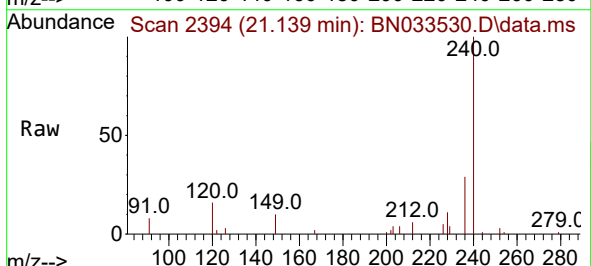
Tgt Ion:240 Resp: 12146

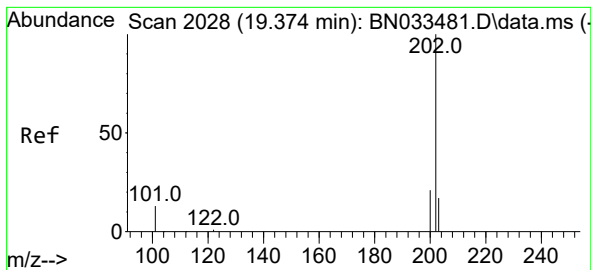
Ion Ratio Lower Upper

240 100

120 16.2 12.4 18.6

236 29.4 23.0 34.6





#30

Pyrene

Concen: 0.235 ng

RT: 19.365 min Scan# 2028

Delta R.T. -0.009 min

Lab File: BN033530.D

Acq: 21 Aug 2024 07:03

Instrument :

BNA\_N

ClientSampleId :

932-K1-SD-0-0.5-081524

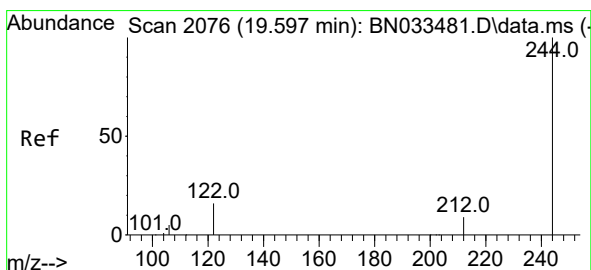
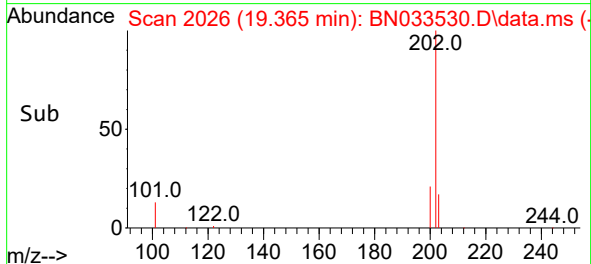
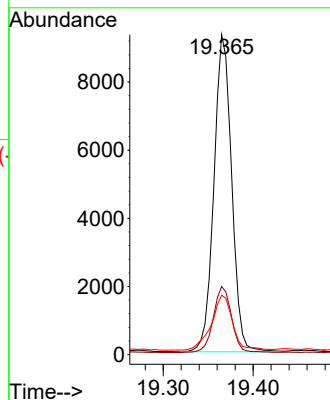
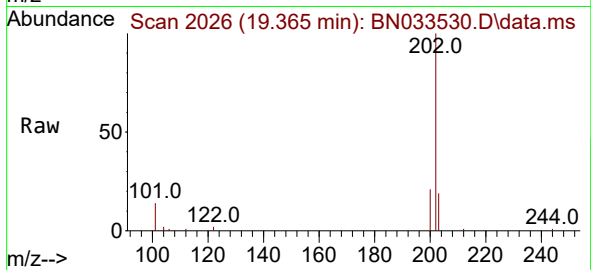
Tgt Ion:202 Resp: 12734

Ion Ratio Lower Upper

202 100

200 21.2 16.6 24.8

203 20.8 14.2 21.4



#31

Terphenyl-d14

Concen: 0.097 ng

RT: 19.588 min Scan# 2074

Delta R.T. -0.009 min

Lab File: BN033530.D

Acq: 21 Aug 2024 07:03

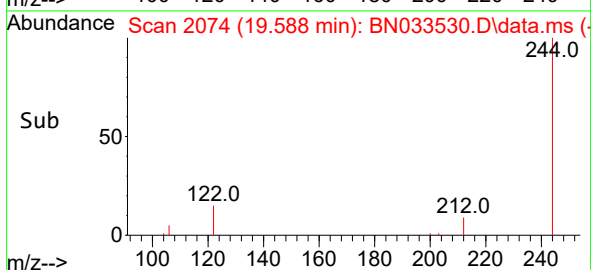
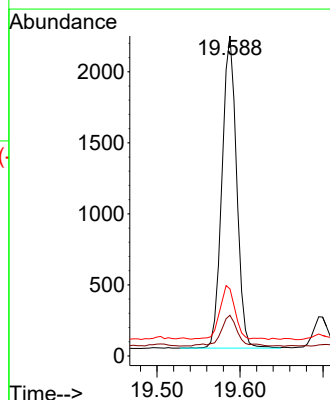
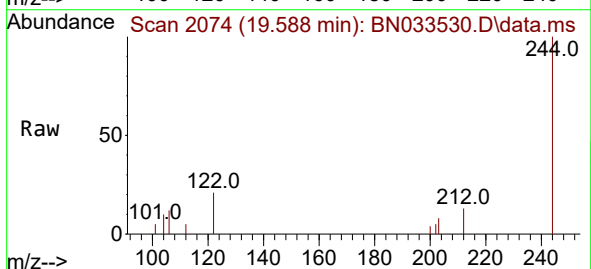
Tgt Ion:244 Resp: 2681

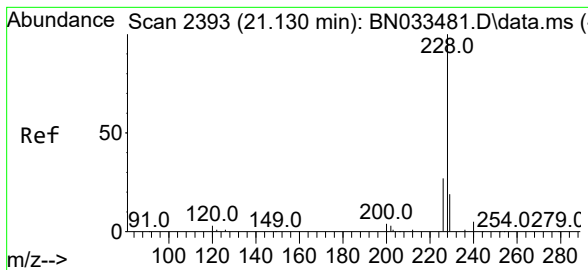
Ion Ratio Lower Upper

244 100

212 12.7 7.8 11.6#

122 21.0 13.3 19.9#





#32

Benzo(a)anthracene

Concen: 0.117 ng

RT: 21.121 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN033530.D

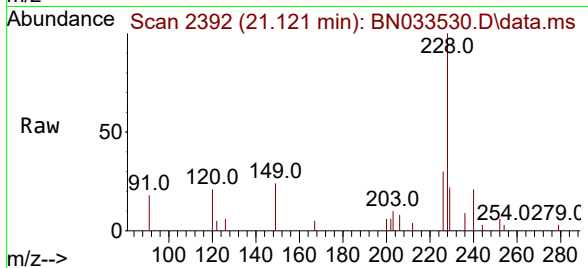
Acq: 21 Aug 2024 07:03

Instrument :

BNA\_N

ClientSampleId :

932-K1-SD-0-0.5-081524



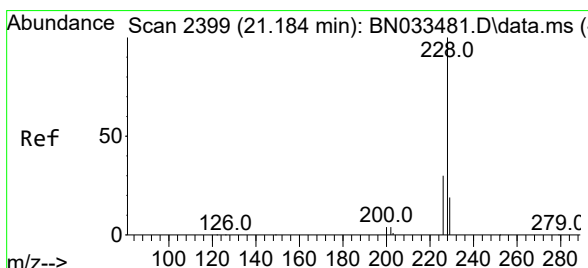
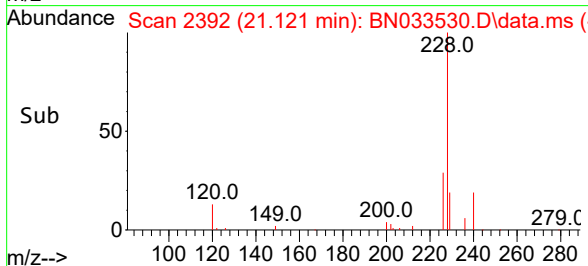
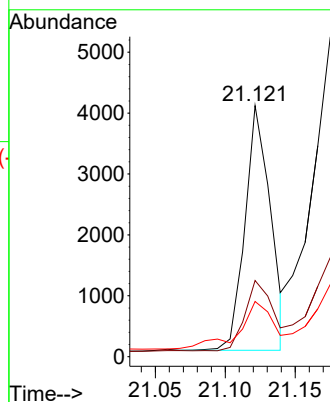
Tgt Ion:228 Resp: 5120

Ion Ratio Lower Upper

228 100

226 30.3 21.8 32.6

229 22.0 15.8 23.6



#33

Chrysene

Concen: 0.177 ng

RT: 21.175 min Scan# 2398

Delta R.T. -0.009 min

Lab File: BN033530.D

Acq: 21 Aug 2024 07:03

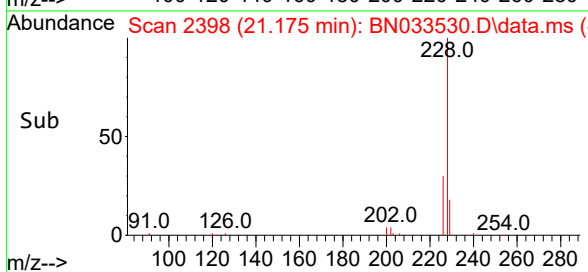
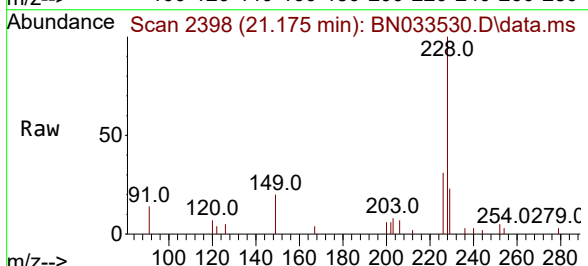
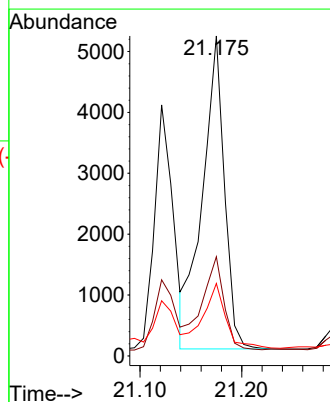
Tgt Ion:228 Resp: 7716

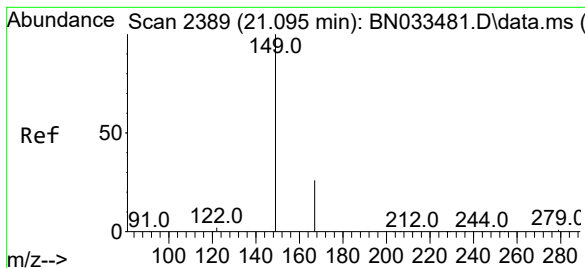
Ion Ratio Lower Upper

228 100

226 31.0 23.8 35.8

229 22.6 15.6 23.4

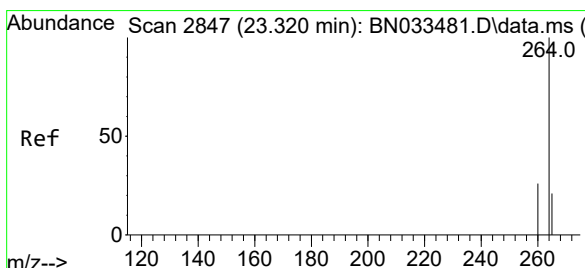
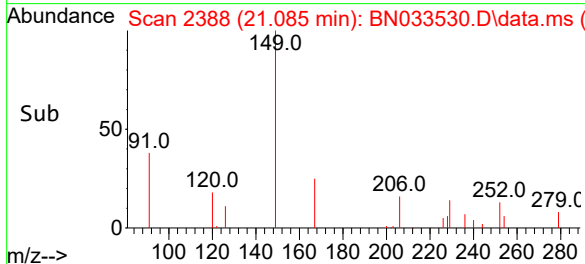
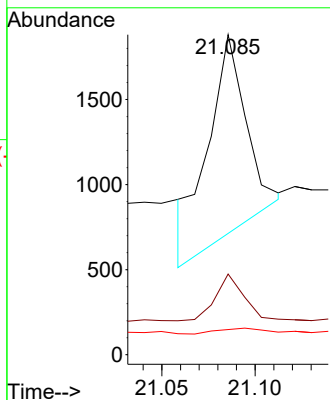
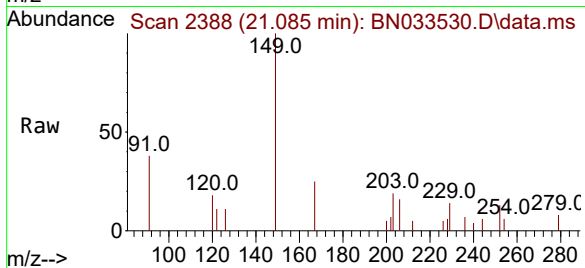




#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.062 ng  
 RT: 21.085 min Scan# 21088  
 Delta R.T. -0.009 min  
 Lab File: BN033530.D  
 Acq: 21 Aug 2024 07:03

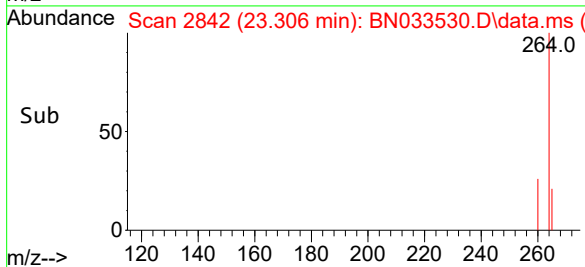
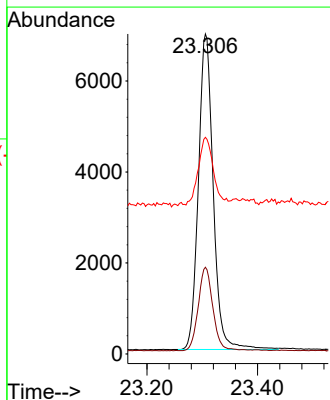
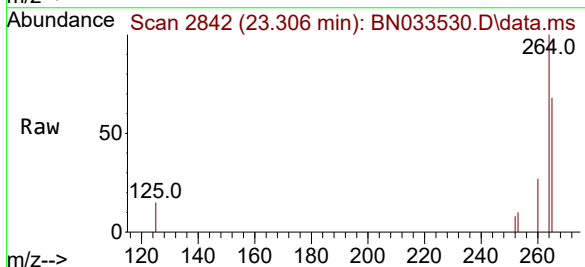
Instrument :  
 BNA\_N  
 ClientSampleId :  
 932-K1-SD-0-0.5-081524

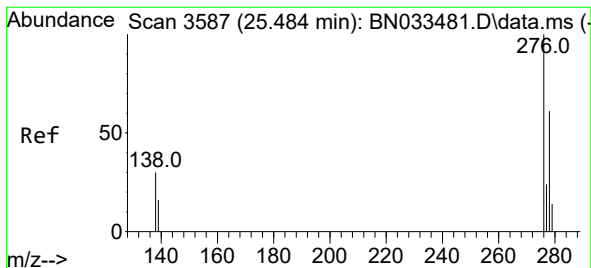
Tgt Ion:149 Resp: 1714  
 Ion Ratio Lower Upper  
 149 100  
 167 30.5 21.5 32.3  
 279 10.1 2.2 3.2#



#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.306 min Scan# 2842  
 Delta R.T. -0.015 min  
 Lab File: BN033530.D  
 Acq: 21 Aug 2024 07:03

Tgt Ion:264 Resp: 12923  
 Ion Ratio Lower Upper  
 264 100  
 260 27.1 20.8 31.2  
 265 67.7 52.2 78.2





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.085 ng

RT: 25.455 min Scan# 31

Delta R.T. -0.029 min

Lab File: BN033530.D

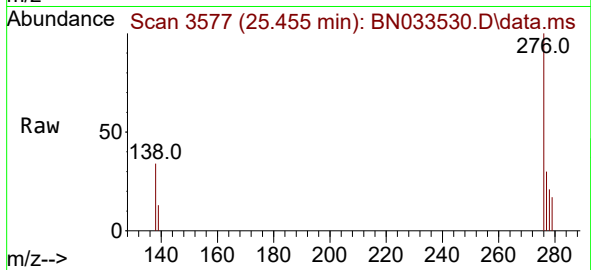
Acq: 21 Aug 2024 07:03

Instrument :

BNA\_N

ClientSampleId :

932-K1-SD-0-0.5-081524



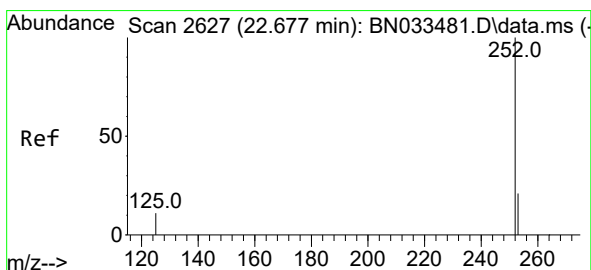
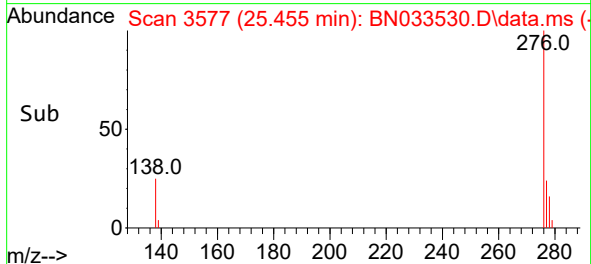
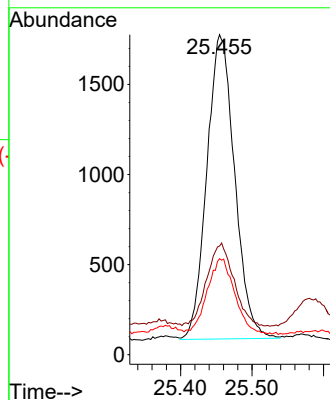
Tgt Ion:276 Resp: 4566

Ion Ratio Lower Upper

276 100

138 26.5 24.4 36.6

277 24.7 19.8 29.6



#37

Benzo(b)fluoranthene

Concen: 0.204 ng

RT: 22.665 min Scan# 2623

Delta R.T. -0.012 min

Lab File: BN033530.D

Acq: 21 Aug 2024 07:03

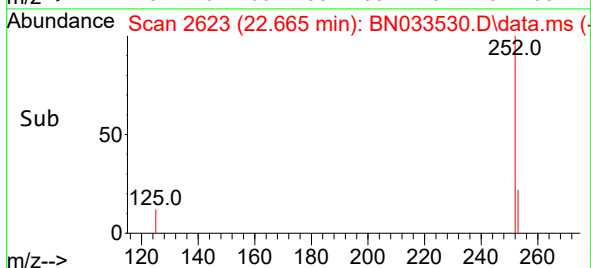
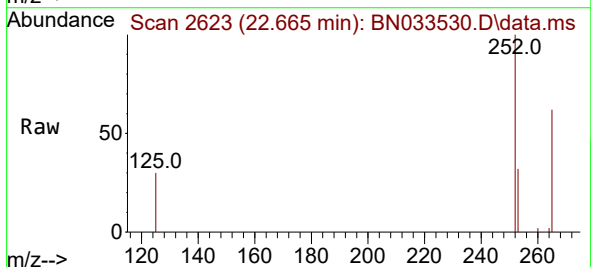
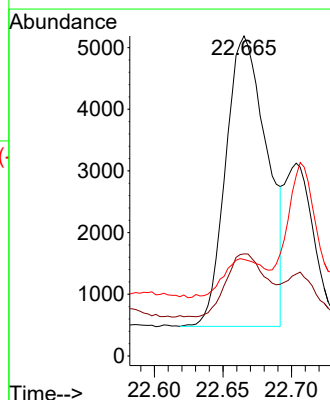
Tgt Ion:252 Resp: 9829

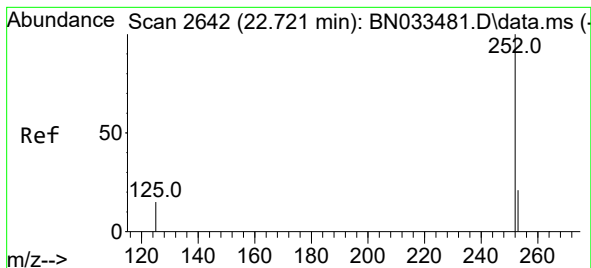
Ion Ratio Lower Upper

252 100

253 31.9 19.8 29.8#

125 30.2 13.9 20.9#





#38

Benzo(k)fluoranthene

Concen: 0.207 ng

RT: 22.665 min Scan# 21

Delta R.T. -0.056 min

Lab File: BN033530.D

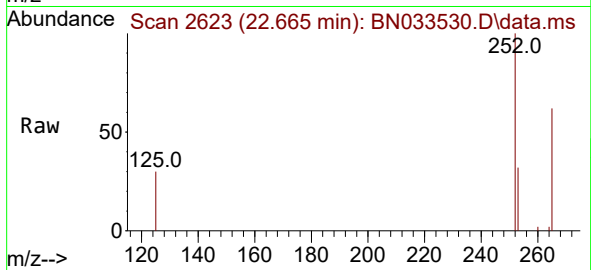
Acq: 21 Aug 2024 07:03

Instrument :

BNA\_N

ClientSampleId :

932-K1-SD-0-0.5-081524



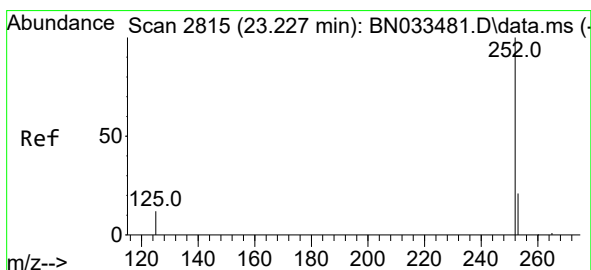
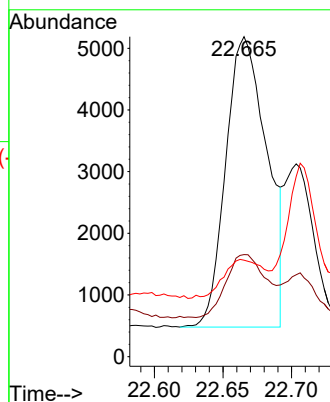
Tgt Ion:252 Resp: 9829

Ion Ratio Lower Upper

252 100

253 31.9 19.8 29.8#

125 30.2 15.8 23.8#



#39

Benzo(a)pyrene

Concen: 0.144 ng

RT: 23.212 min Scan# 2810

Delta R.T. -0.015 min

Lab File: BN033530.D

Acq: 21 Aug 2024 07:03

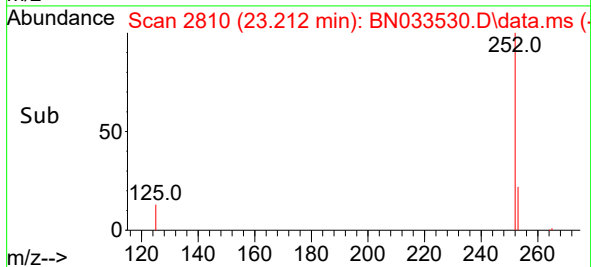
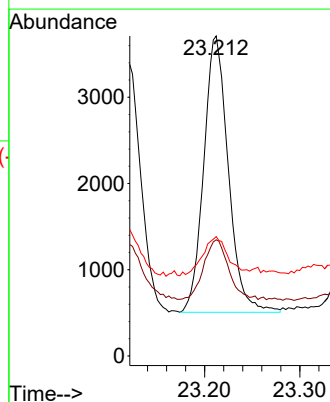
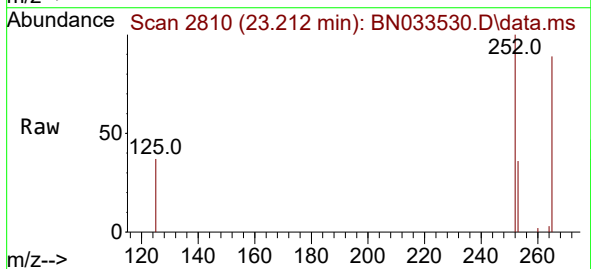
Tgt Ion:252 Resp: 5741

Ion Ratio Lower Upper

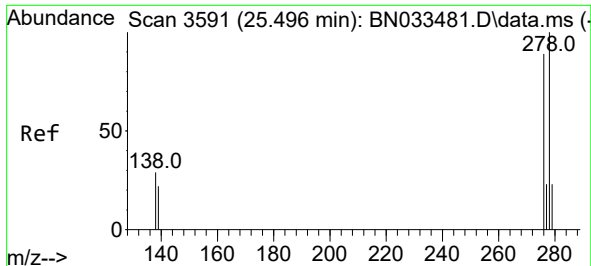
252 100

253 36.3 21.5 32.3#

125 37.3 17.0 25.4#



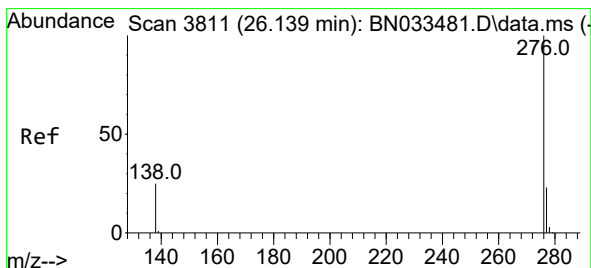
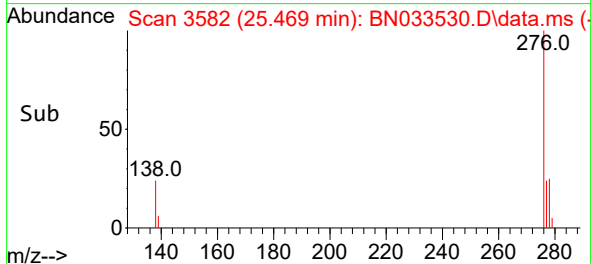
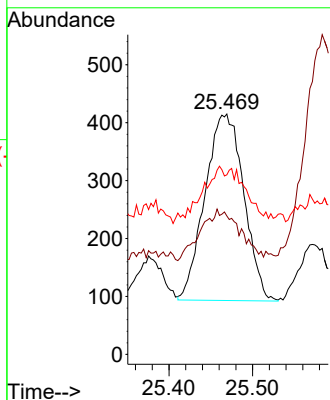
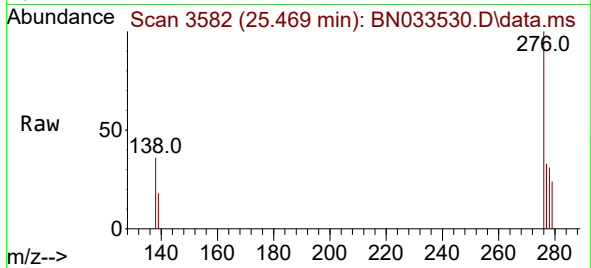




#40  
Dibenzo(a,h)anthracene  
Concen: 0.024 ng  
RT: 25.469 min Scan# 31  
Delta R.T. -0.026 min  
Lab File: BN033530.D  
Acq: 21 Aug 2024 07:03

Instrument :  
BNA\_N  
ClientSampleId :  
932-K1-SD-0-0.5-081524

Tgt Ion:278 Resp: 1039  
Ion Ratio Lower Upper  
278 100  
139 57.6 19.1 28.7#  
279 74.7 21.0 31.4#



#41  
Benzo(g,h,i)perylene  
Concen: 0.111 ng  
RT: 26.109 min Scan# 3801  
Delta R.T. -0.029 min  
Lab File: BN033530.D  
Acq: 21 Aug 2024 07:03

Tgt Ion:276 Resp: 5085  
Ion Ratio Lower Upper  
276 100  
277 28.6 19.7 29.5  
138 34.1 21.8 32.6#

