

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061223\  
 Data File : BN025784.D  
 Acq On : 12 Jun 2023 16:33  
 Operator : MA/JU  
 Sample : 02951-06MSD  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 EW999MSD

Quant Time: Jun 13 00:02:54 2023  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN060923.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jun 10 02:01:49 2023  
 Response via : Initial Calibration

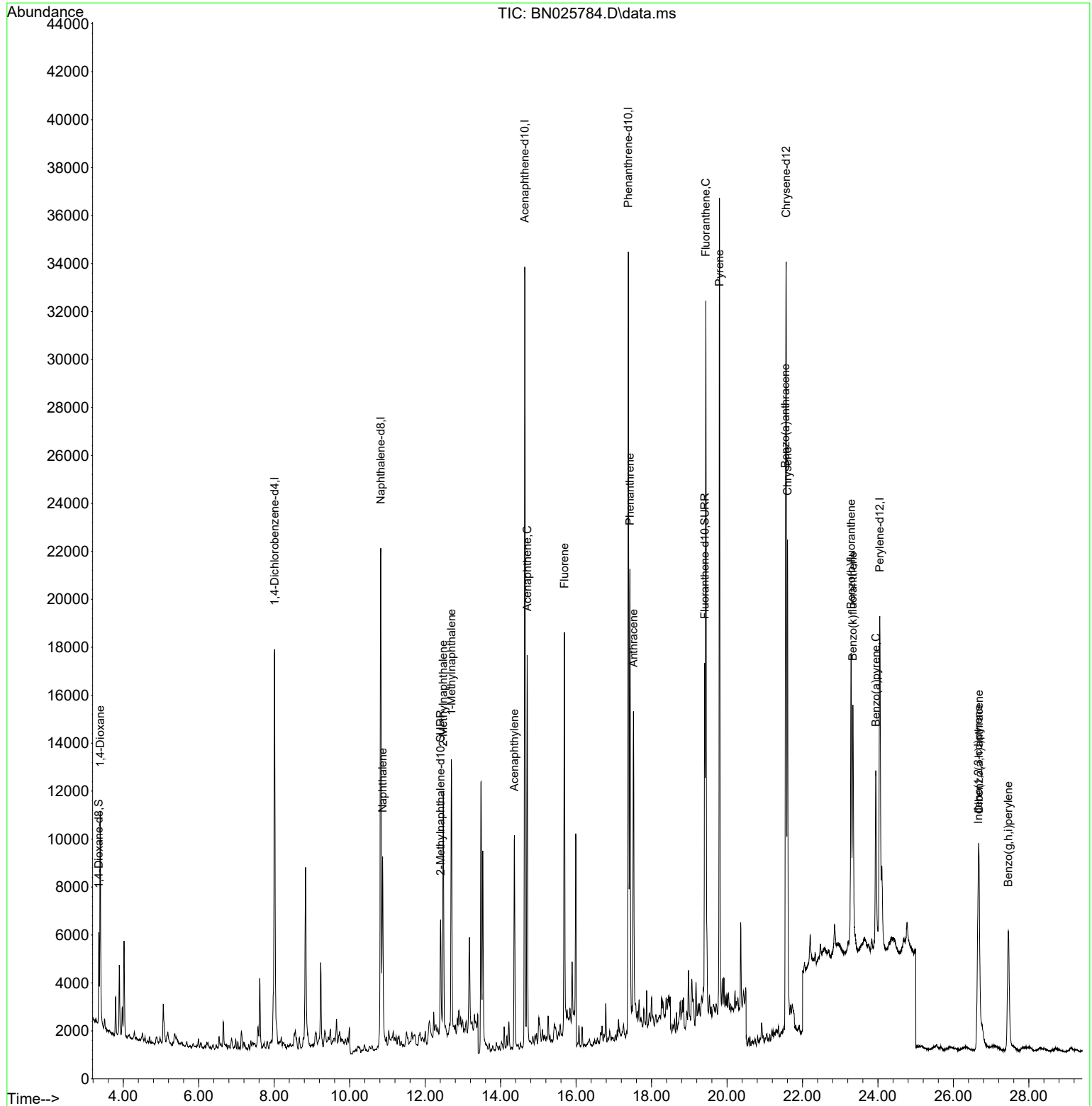
| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.010  | 152  | 10282    | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.825 | 136  | 30896    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.640 | 164  | 18421    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.385 | 188  | 38962    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.567 | 240  | 25667    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 24.049 | 264  | 21028    | 0.400 | ng/ul  | 0.00     |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.352  | 96   | 2559     | 0.253 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.409 | 152  | 6511     | 0.166 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.410 | 212  | 15778    | 0.195 | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane              | 3.390  | 88   | 6395     | 0.591 | ng/ul  | 95       |
| 5) Naphthalene              | 10.875 | 128  | 11840    | 0.151 | ng/ul  | 99       |
| 7) 2-Methylnaphthalene      | 12.480 | 142  | 7821     | 0.165 | ng/ul  | 98       |
| 8) 1-Methylnaphthalene      | 12.695 | 142  | 8305     | 0.160 | ng/ul  | 98       |
| 10) Acenaphthylene          | 14.367 | 152  | 11267    | 0.155 | ng/ul  | 96       |
| 11) Acenaphthene            | 14.704 | 153  | 9784     | 0.161 | ng/ul  | 99       |
| 12) Fluorene                | 15.690 | 166  | 11350    | 0.168 | ng/ul  | 99       |
| 15) Phenanthrene            | 17.427 | 178  | 22238    | 0.196 | ng/ul  | 97       |
| 16) Anthracene              | 17.520 | 178  | 15731    | 0.164 | ng/ul  | 96       |
| 19) Fluoranthene            | 19.438 | 202  | 25903    | 0.221 | ng/ul  | 97       |
| 20) Pyrene                  | 19.800 | 202  | 27963    | 0.230 | ng/ul  | 97       |
| 21) Benzo(a)anthracene      | 21.549 | 228  | 17120    | 0.209 | ng/ul  | 94       |
| 22) Chrysene                | 21.605 | 228  | 20150    | 0.215 | ng/ul  | 96       |
| 24) Benzo(b)fluoranthene    | 23.288 | 252  | 15933    | 0.185 | ng/ul  | 82       |
| 25) Benzo(k)fluoranthene    | 23.335 | 252  | 14999    | 0.174 | ng/ul# | 80       |
| 26) Benzo(a)pyrene          | 23.943 | 252  | 12053    | 0.165 | ng/ul# | 78       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.658 | 276  | 14704    | 0.177 | ng/ul# | 96       |
| 28) Dibenzo(a,h)anthracene  | 26.678 | 278  | 10653    | 0.169 | ng/ul  | 91       |
| 29) Benzo(g,h,i)perylene    | 27.456 | 276  | 11522    | 0.155 | ng/ul  | 95       |
| -----                       |        |      |          |       |        |          |

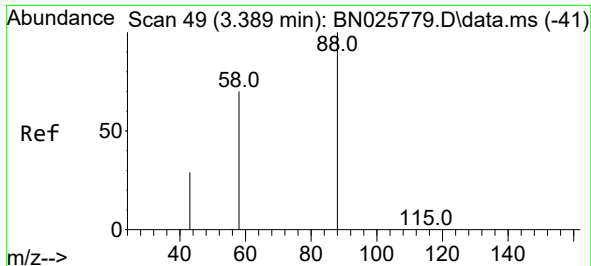
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061223\  
Data File : BN025784.D  
Acq On : 12 Jun 2023 16:33  
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Sample : 02951-06MSD  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_N  
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EW999MSD

Quant Time: Jun 13 00:02:54 2023  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN060923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Jun 10 02:01:49 2023  
Response via : Initial Calibration

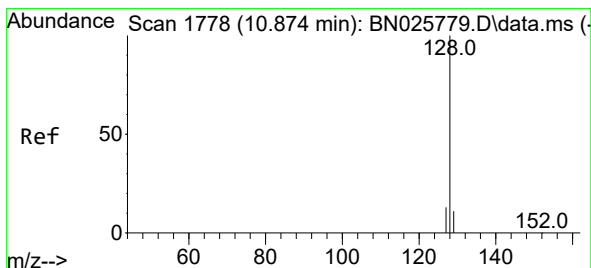
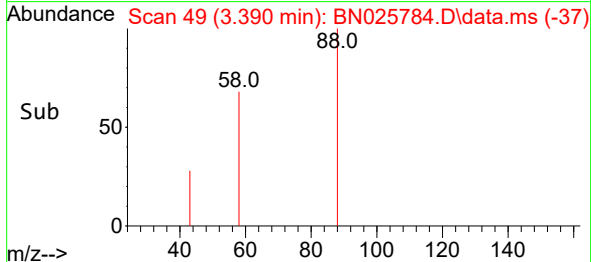
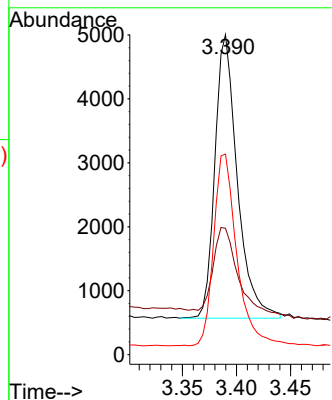
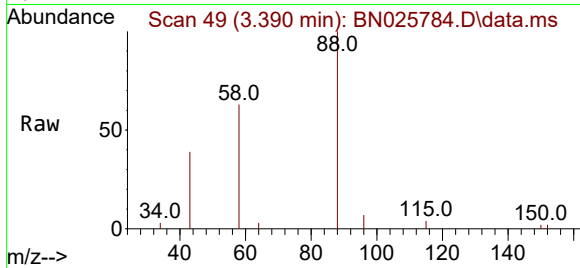




#2  
1,4-Dioxane  
Concen: 0.591 ng/ul  
RT: 3.390 min Scan# 49  
Delta R.T. -0.000 min  
Lab File: BN025784.D  
Acq: 12 Jun 2023 16:33

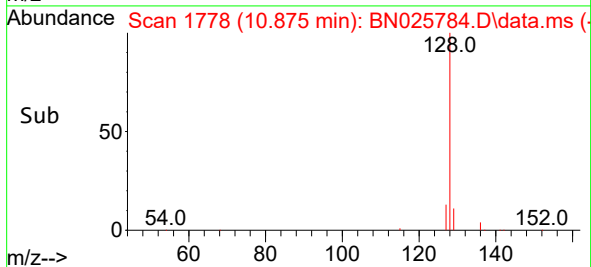
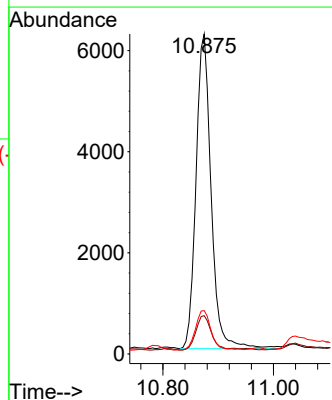
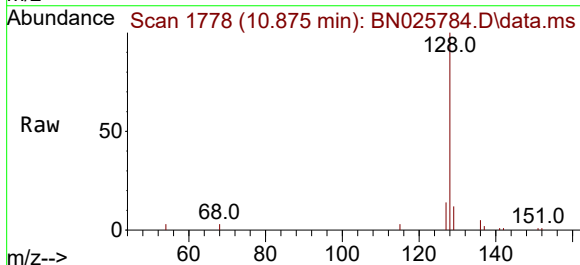
Instrument :  
BNA\_N  
ClientSampleId :  
EW999MSD

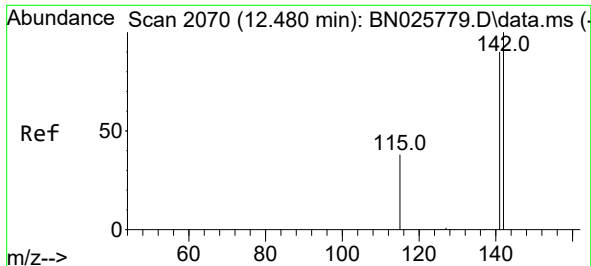
Tgt Ion: 88 Resp: 6395  
Ion Ratio Lower Upper  
88 100  
43 39.5 26.5 39.7  
58 62.7 49.0 73.6



#5  
Naphthalene  
Concen: 0.151 ng/ul  
RT: 10.875 min Scan# 1778  
Delta R.T. -0.000 min  
Lab File: BN025784.D  
Acq: 12 Jun 2023 16:33

Tgt Ion:128 Resp: 11840  
Ion Ratio Lower Upper  
128 100  
129 12.0 9.1 13.7  
127 13.5 10.5 15.7

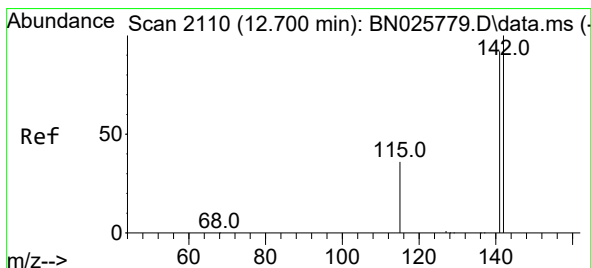
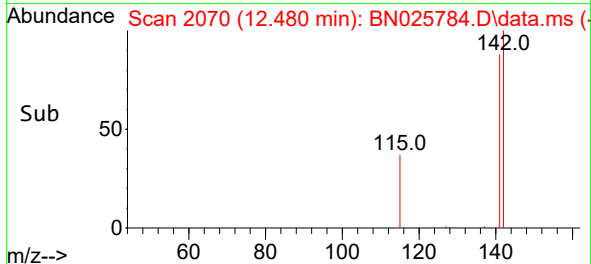
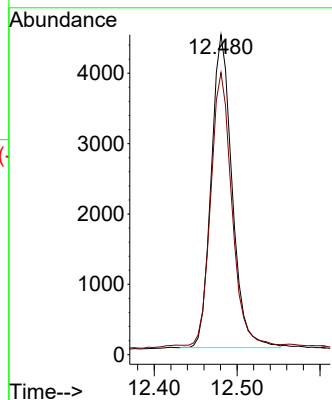
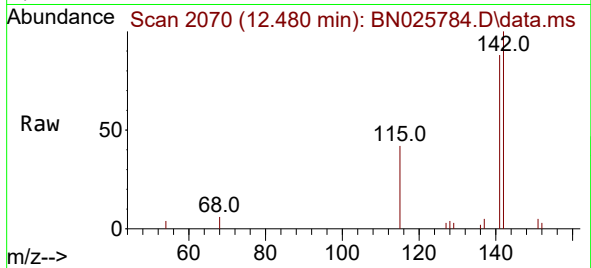




#7  
2-Methylnaphthalene  
Concen: 0.165 ng/ul  
RT: 12.480 min Scan# 2109  
Delta R.T. 0.000 min  
Lab File: BN025784.D  
Acq: 12 Jun 2023 16:33

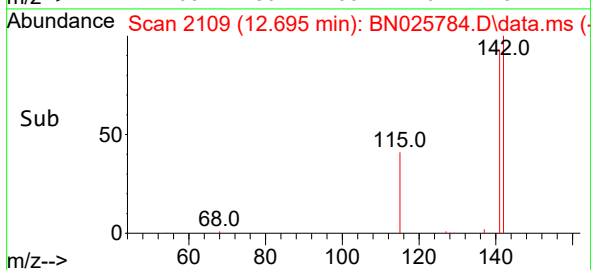
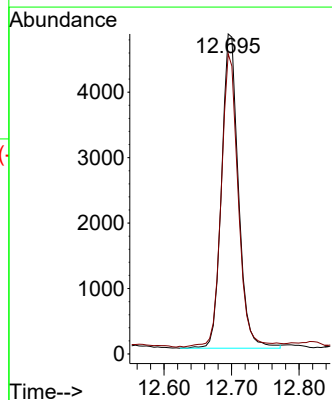
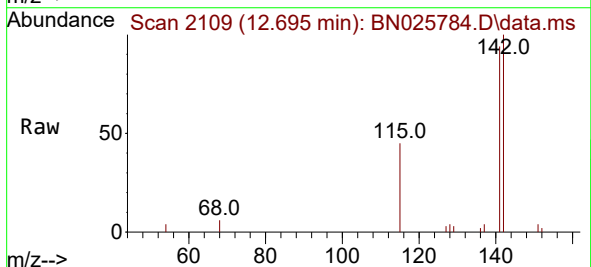
Instrument :  
BNA\_N  
ClientSampleId :  
EW999MSD

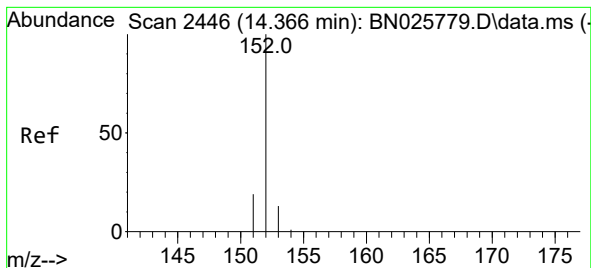
Tgt Ion:142 Resp: 7821  
Ion Ratio Lower Upper  
142 100  
141 90.8 71.4 107.2



#8  
1-Methylnaphthalene  
Concen: 0.160 ng/ul  
RT: 12.695 min Scan# 2109  
Delta R.T. -0.005 min  
Lab File: BN025784.D  
Acq: 12 Jun 2023 16:33

Tgt Ion:142 Resp: 8305  
Ion Ratio Lower Upper  
142 100  
141 94.7 74.0 111.0





#10

Acenaphthylene

Concen: 0.155 ng/ul

RT: 14.367 min Scan# 2446

Delta R.T. 0.001 min

Lab File: BN025784.D

Acq: 12 Jun 2023 16:33

Instrument :

BNA\_N

ClientSampleId :

EW999MSD

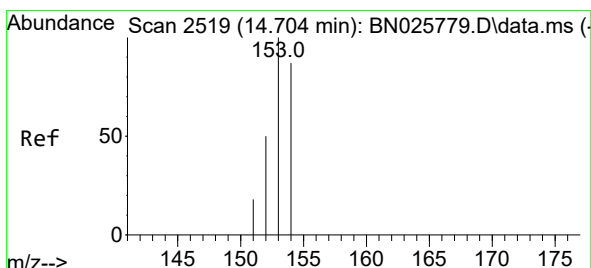
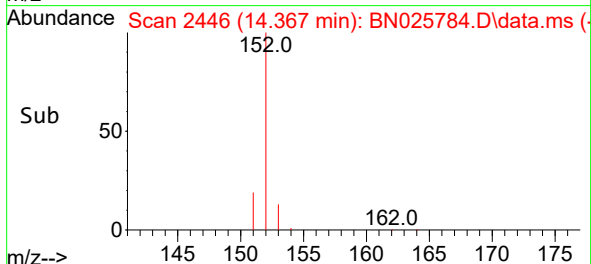
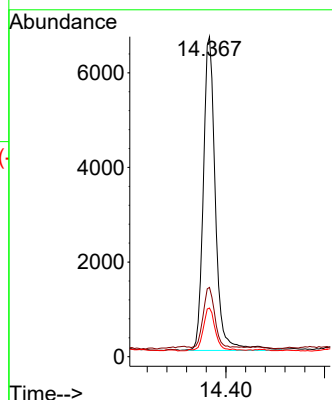
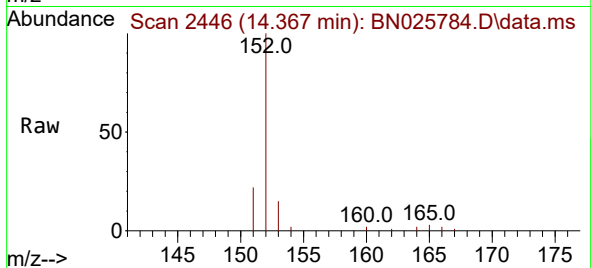
Tgt Ion:152 Resp: 11267

Ion Ratio Lower Upper

152 100

151 21.7 16.0 24.0

153 15.2 10.7 16.1



#11

Acenaphthene

Concen: 0.161 ng/ul

RT: 14.704 min Scan# 2519

Delta R.T. 0.000 min

Lab File: BN025784.D

Acq: 12 Jun 2023 16:33

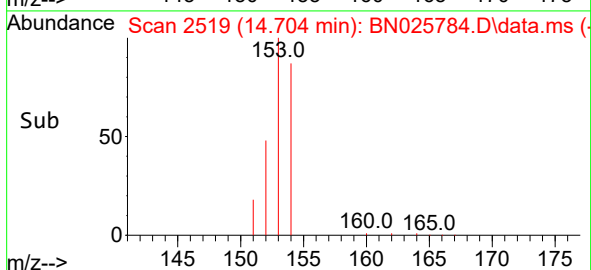
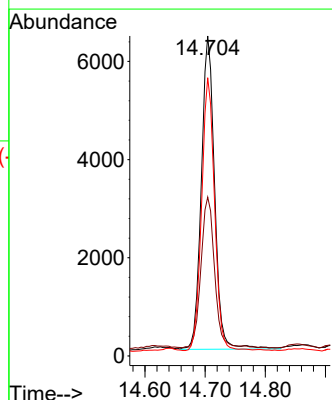
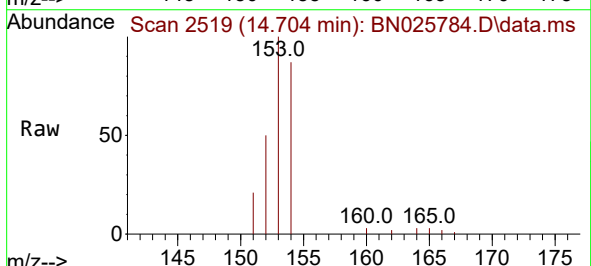
Tgt Ion:153 Resp: 9784

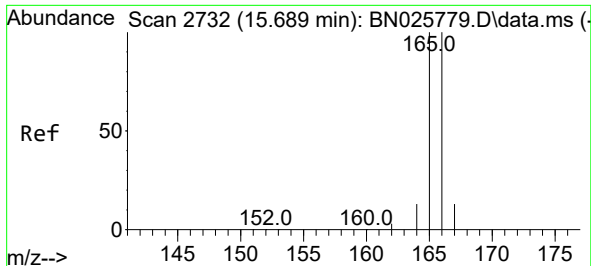
Ion Ratio Lower Upper

153 100

152 49.7 39.5 59.3

154 86.9 68.8 103.2

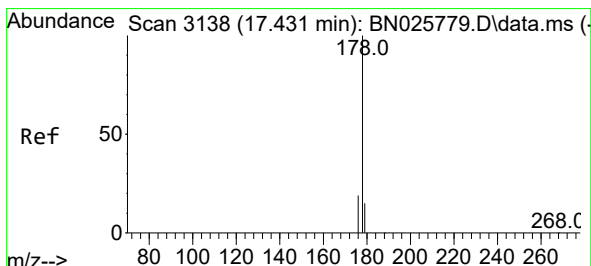
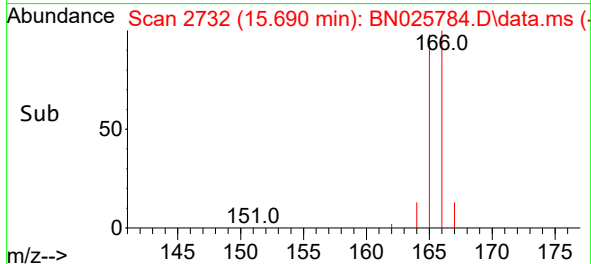
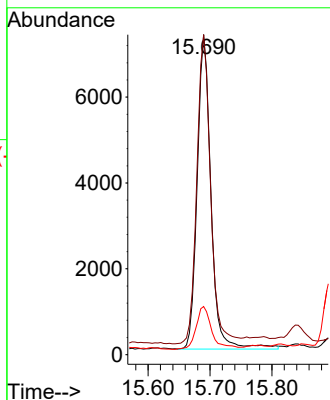
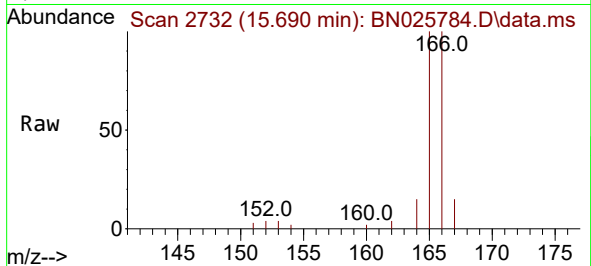




#12  
Fluorene  
Concen: 0.168 ng/ul  
RT: 15.690 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN025784.D  
Acq: 12 Jun 2023 16:33

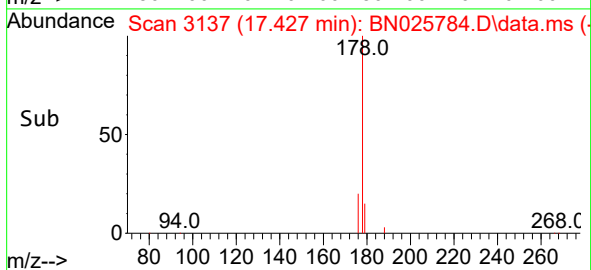
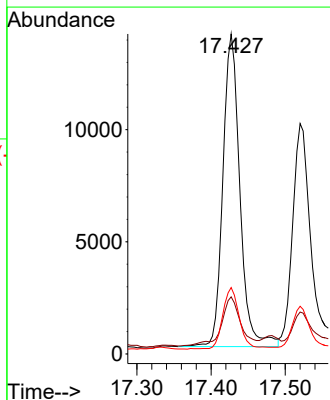
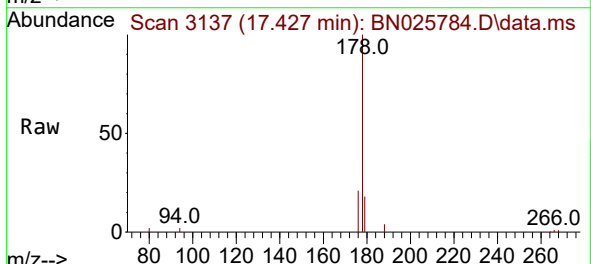
Instrument :  
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ClientSampleId :  
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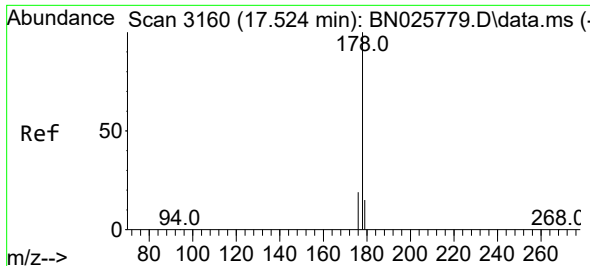
Tgt Ion:166 Resp: 11350  
Ion Ratio Lower Upper  
166 100  
165 100.0 79.2 118.8  
167 15.1 11.0 16.6



#15  
Phenanthrene  
Concen: 0.196 ng/ul  
RT: 17.427 min Scan# 3137  
Delta R.T. -0.004 min  
Lab File: BN025784.D  
Acq: 12 Jun 2023 16:33

Tgt Ion:178 Resp: 22238  
Ion Ratio Lower Upper  
178 100  
179 17.9 12.6 18.8  
176 20.7 15.8 23.8

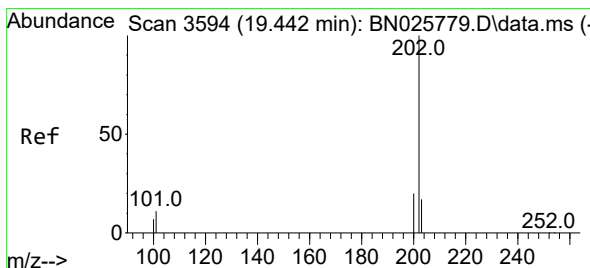
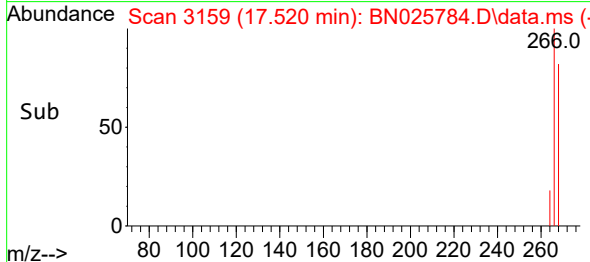
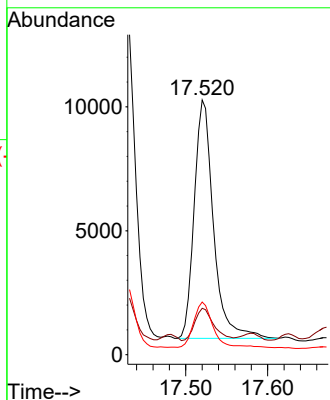
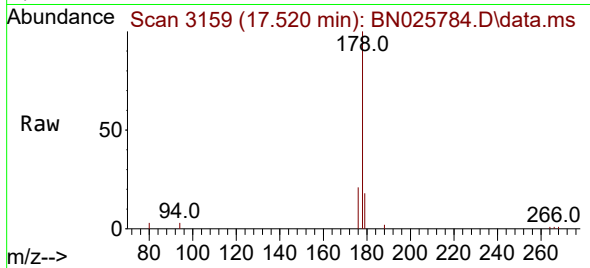




#16  
 Anthracene  
 Concen: 0.164 ng/ul  
 RT: 17.520 min Scan# 3160  
 Delta R.T. -0.004 min  
 Lab File: BN025784.D  
 Acq: 12 Jun 2023 16:33

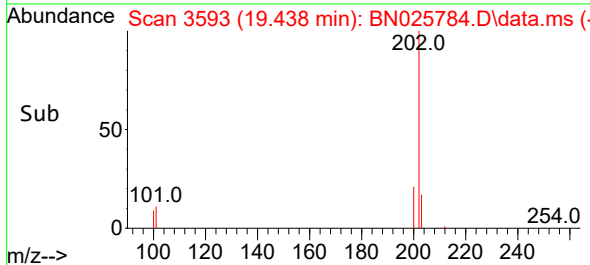
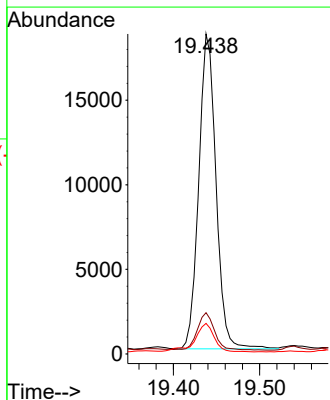
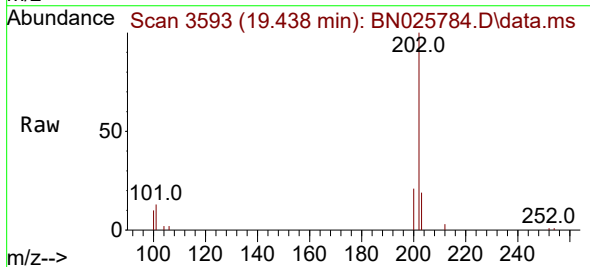
Instrument :  
 BNA\_N  
 ClientSampleId :  
 EW999MSD

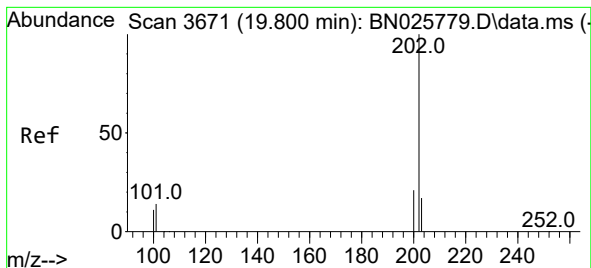
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|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 15731     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 18.2  | 12.6 19.0 |
| 176         | 20.7  | 15.4 23.2 |



#19  
 Fluoranthene  
 Concen: 0.221 ng/ul  
 RT: 19.438 min Scan# 3593  
 Delta R.T. -0.004 min  
 Lab File: BN025784.D  
 Acq: 12 Jun 2023 16:33

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:202 | Resp: | 25903    |
| Ion Ratio   | Lower | Upper    |
| 202         | 100   |          |
| 101         | 12.9  | 9.1 13.7 |
| 100         | 9.6   | 7.0 10.6 |





#20

Pyrene

Concen: 0.230 ng/ul

RT: 19.800 min Scan# 3

Delta R.T. -0.005 min

Lab File: BN025784.D

Acq: 12 Jun 2023 16:33

Instrument :

BNA\_N

ClientSampleId :

EW999MSD

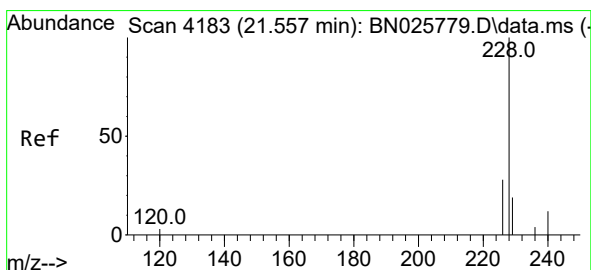
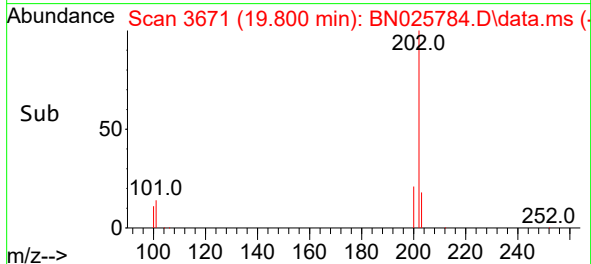
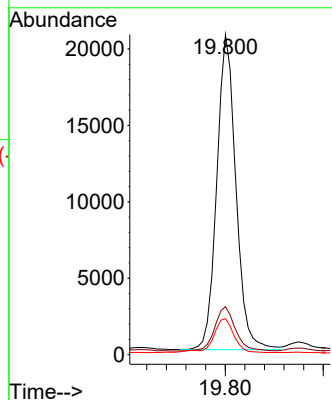
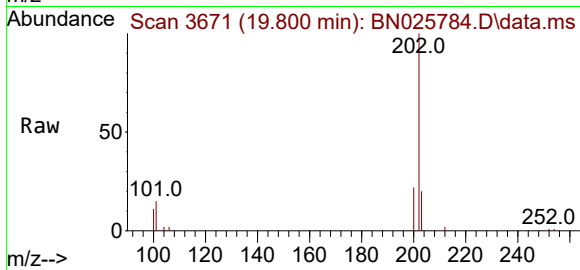
Tgt Ion:202 Resp: 27963

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 202 | 100 |  |  |
|-----|-----|--|--|

|     |      |      |      |
|-----|------|------|------|
| 101 | 15.0 | 10.4 | 15.6 |
|-----|------|------|------|

|     |      |     |      |
|-----|------|-----|------|
| 100 | 11.3 | 8.8 | 13.2 |
|-----|------|-----|------|



#21

Benzo(a)anthracene

Concen: 0.209 ng/ul

RT: 21.549 min Scan# 4180

Delta R.T. -0.003 min

Lab File: BN025784.D

Acq: 12 Jun 2023 16:33

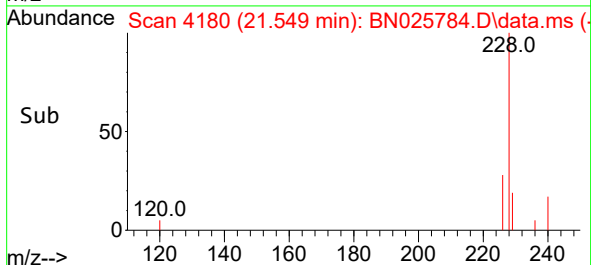
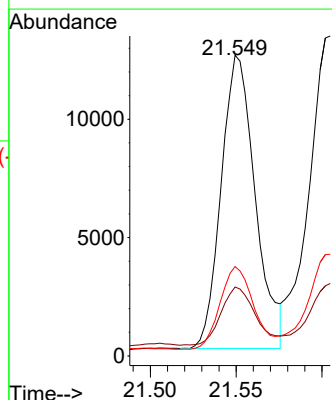
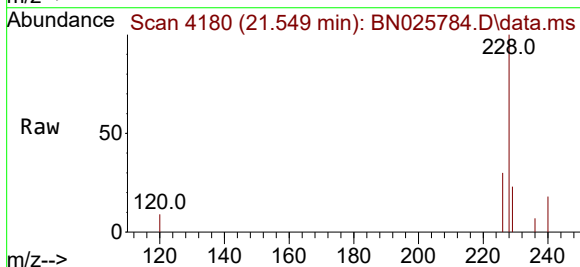
Tgt Ion:228 Resp: 17120

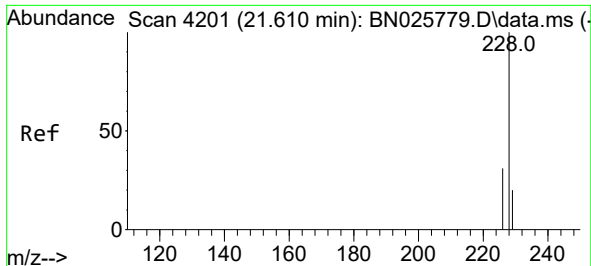
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 228 | 100 |  |  |
|-----|-----|--|--|

|     |      |      |      |
|-----|------|------|------|
| 229 | 22.9 | 15.5 | 23.3 |
|-----|------|------|------|

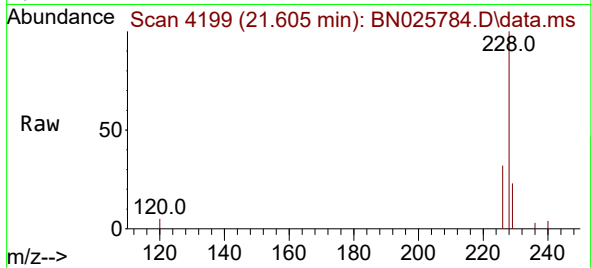
|     |      |      |      |
|-----|------|------|------|
| 226 | 29.7 | 22.0 | 33.0 |
|-----|------|------|------|



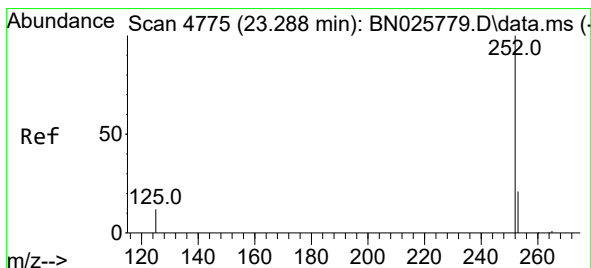
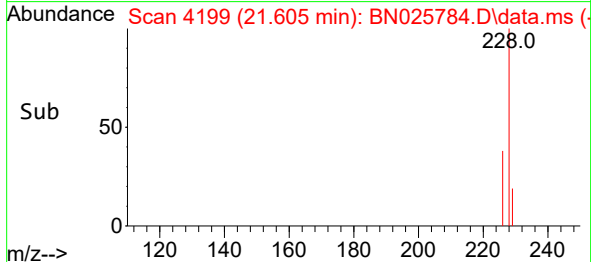
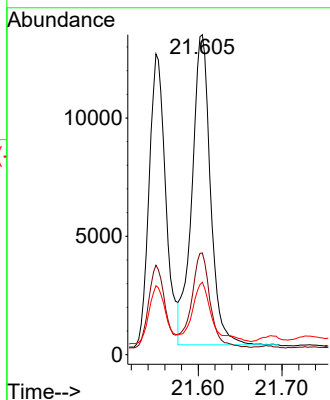


#22  
Chrysene  
Concen: 0.215 ng/ul  
RT: 21.605 min Scan# 4199  
Delta R.T. -0.003 min  
Lab File: BN025784.D  
Acq: 12 Jun 2023 16:33

Instrument :  
BNA\_N  
ClientSampleId :  
EW999MSD

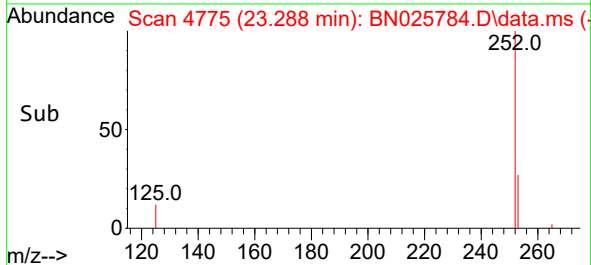
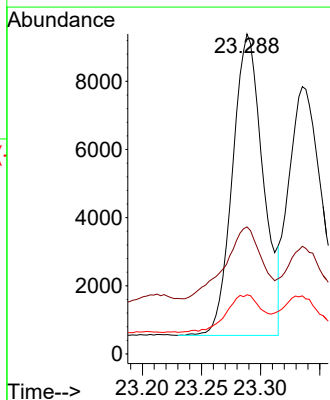
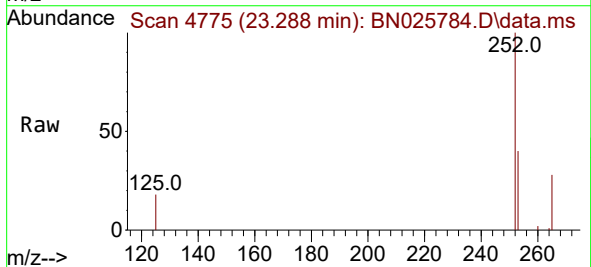


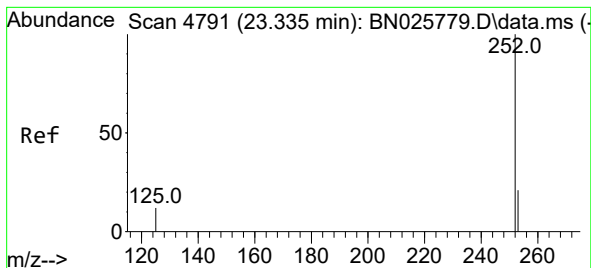
Tgt Ion:228 Resp: 20150  
Ion Ratio Lower Upper  
228 100  
226 31.8 24.7 37.1  
229 22.7 15.7 23.5



#24  
Benzo(b)fluoranthene  
Concen: 0.185 ng/ul  
RT: 23.288 min Scan# 4775  
Delta R.T. -0.003 min  
Lab File: BN025784.D  
Acq: 12 Jun 2023 16:33

Tgt Ion:252 Resp: 15933  
Ion Ratio Lower Upper  
252 100  
253 39.7 0.0 56.0  
125 18.5 0.0 28.0





#25

Benzo(k)fluoranthene

Concen: 0.174 ng/ul

RT: 23.335 min Scan# 41

Delta R.T. -0.006 min

Lab File: BN025784.D

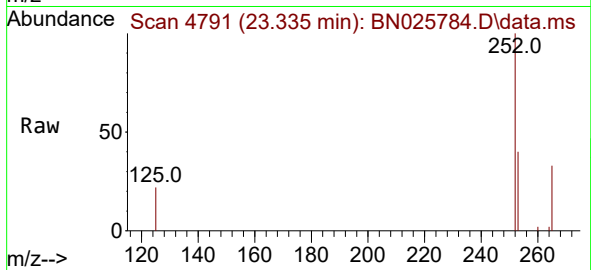
Acq: 12 Jun 2023 16:33

Instrument :

BNA\_N

ClientSampleId :

EW999MSD



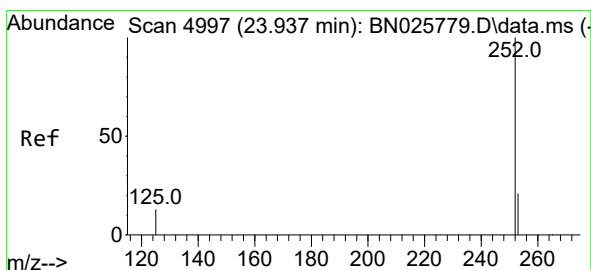
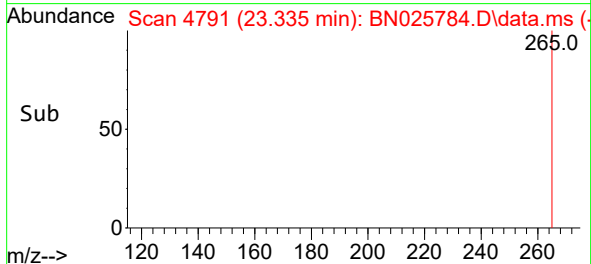
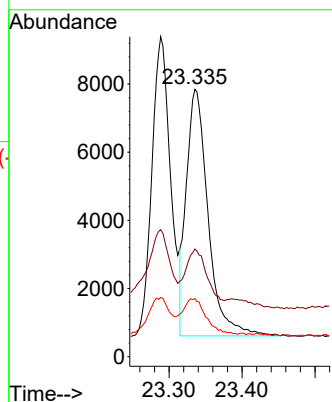
Tgt Ion:252 Resp: 14999

Ion Ratio Lower Upper

252 100

253 40.3 23.3 34.9#

125 21.7 11.6 17.4#



#26

Benzo(a)pyrene

Concen: 0.165 ng/ul

RT: 23.943 min Scan# 4999

Delta R.T. 0.000 min

Lab File: BN025784.D

Acq: 12 Jun 2023 16:33

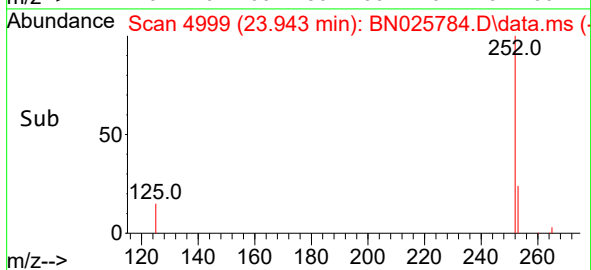
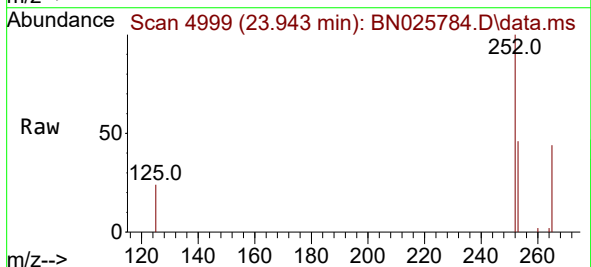
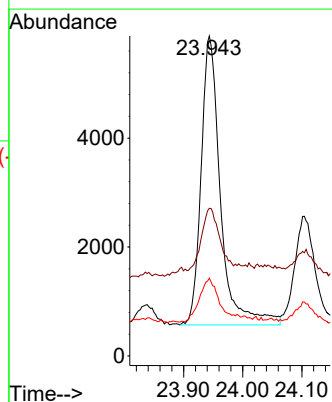
Tgt Ion:252 Resp: 12053

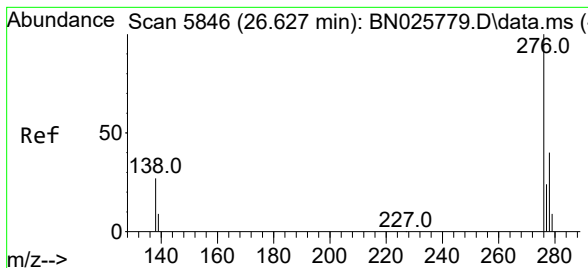
Ion Ratio Lower Upper

252 100

253 46.2 25.8 38.8#

125 24.3 13.5 20.3#





#27

Indeno(1,2,3-cd)pyrene

Concen: 0.177 ng/ul

RT: 26.658 min Scan# 5855

Delta R.T. 0.000 min

Lab File: BN025784.D

Acq: 12 Jun 2023 16:33

Instrument :

BNA\_N

ClientSampleId :

EW999MSD

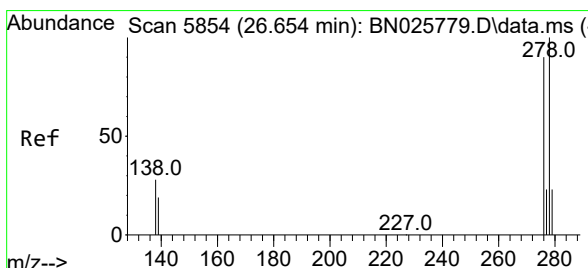
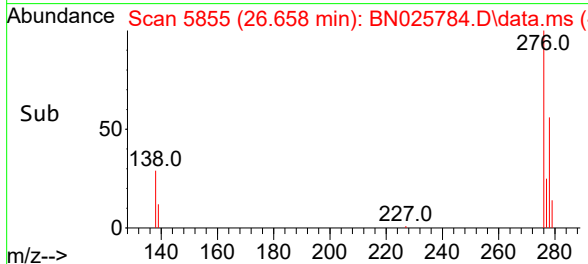
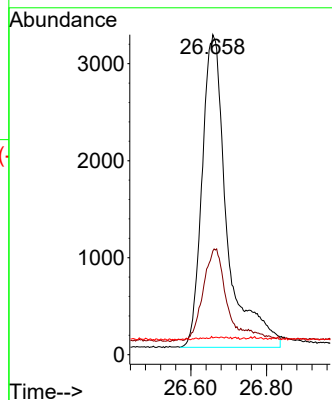
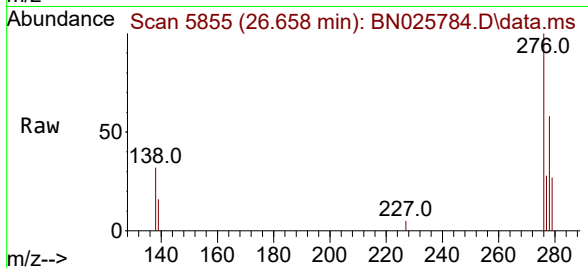
Tgt Ion:276 Resp: 14704

Ion Ratio Lower Upper

276 100

138 28.7 24.6 36.8

227 0.1 0.0 0.0#



#28

Dibenzo(a,h)anthracene

Concen: 0.169 ng/ul

RT: 26.678 min Scan# 5861

Delta R.T. -0.007 min

Lab File: BN025784.D

Acq: 12 Jun 2023 16:33

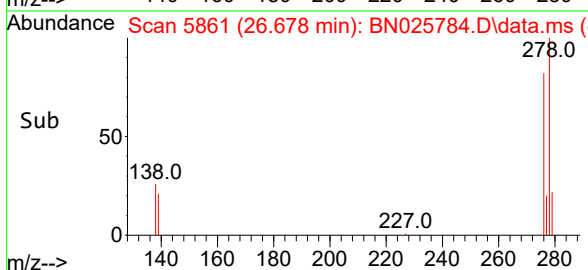
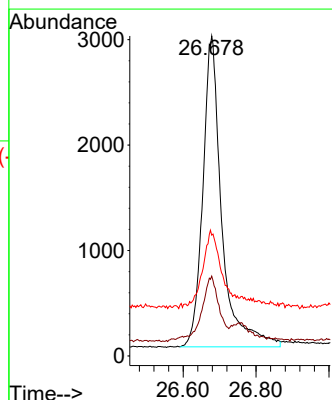
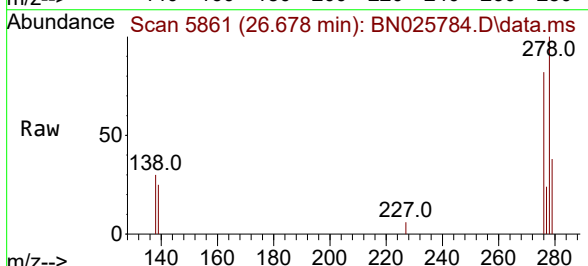
Tgt Ion:278 Resp: 10653

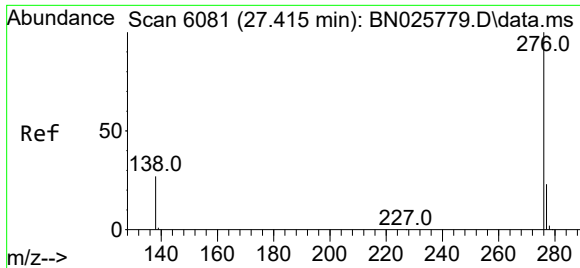
Ion Ratio Lower Upper

278 100

139 25.0 17.9 26.9

279 37.8 25.3 37.9





#29  
 Benzo(g,h,i)perylene  
 Concen: 0.155 ng/ul  
 RT: 27.456 min Scan# 6093  
 Delta R.T. 0.007 min  
 Lab File: BN025784.D  
 Acq: 12 Jun 2023 16:33

Instrument :  
 BNA\_N  
 ClientSampleId :  
 EW999MSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 11522 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 138      | 30.1  | 21.8  | 32.8  |
| 277      | 26.4  | 19.4  | 29.2  |

