

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041223\  
 Data File : BM039409.D  
 Acq On : 12 Apr 2023 18:39  
 Operator : CG/JU  
 Sample : 02284-01 2X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 OR-2-041123

Quant Time: Apr 13 01:49:47 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM032923.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 11 16:05:42 2023  
 Response via : Initial Calibration

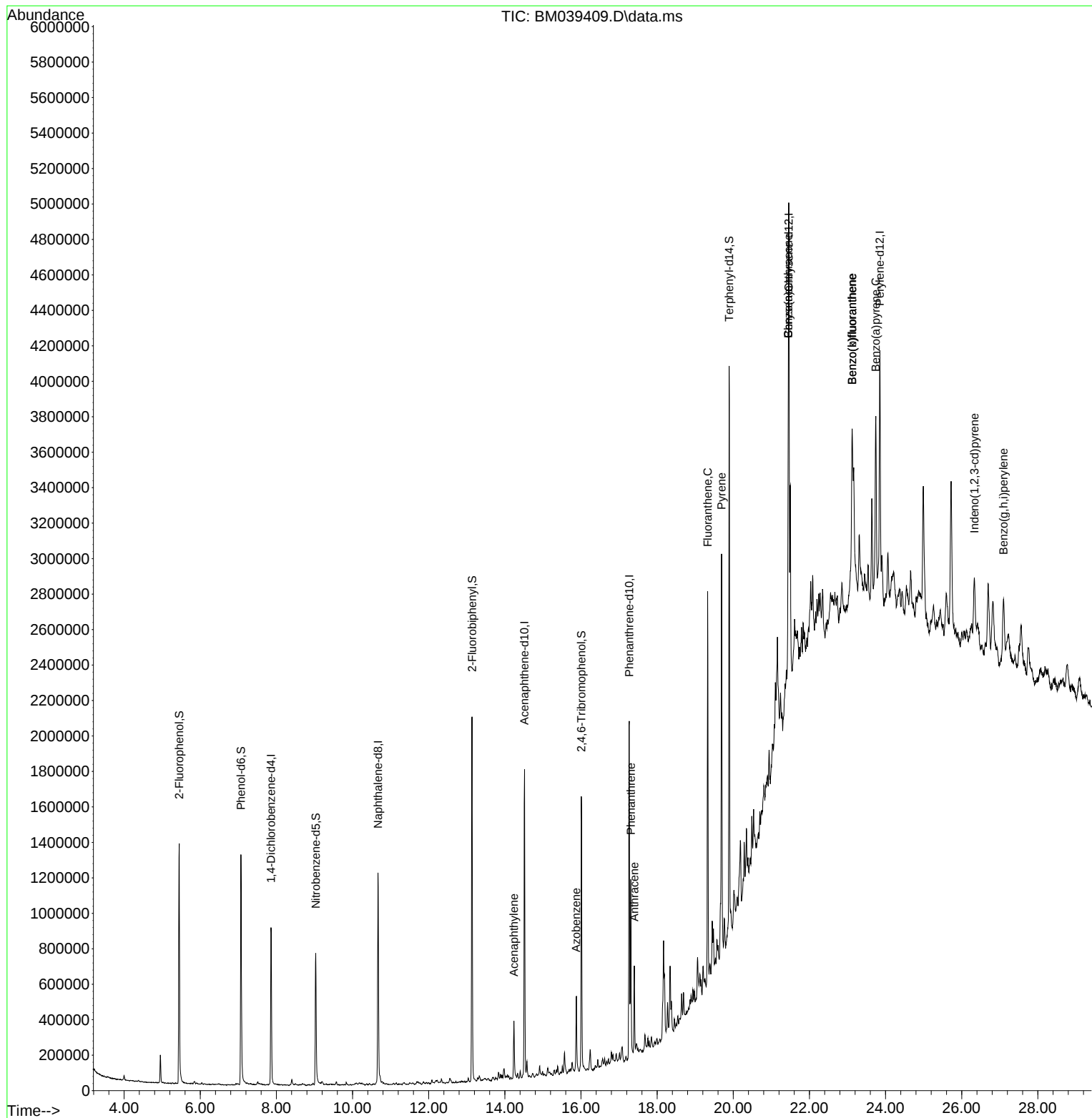
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.857  | 152  | 254504   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.669 | 136  | 1018115  | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.516 | 164  | 597887   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.269 | 188  | 1194308  | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.456 | 240  | 1000795  | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 23.850 | 264  | 1035578  | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.446  | 112  | 649012   | 38.420 | ng    | 0.02     |
| 7) Phenol-d6                | 7.069  | 99   | 830178   | 37.996 | ng    | 0.04     |
| 23) Nitrobenzene-d5         | 9.034  | 82   | 494779   | 23.620 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.010 | 330  | 276081   | 36.376 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.139 | 172  | 1139130  | 25.815 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.892 | 244  | 1578096  | 29.133 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 49) Acenaphthylene          | 14.239 | 152  | 270711   | 4.607  | ng    | 100      |
| 63) Azobenzene              | 15.874 | 77   | 131047   | 2.820  | ng    | # 1      |
| 71) Phenanthrene            | 17.310 | 178  | 599668   | 9.168  | ng    | 99       |
| 72) Anthracene              | 17.398 | 178  | 327717   | 4.914  | ng    | 99       |
| 75) Fluoranthene            | 19.327 | 202  | 1271753  | 17.056 | ng    | 100      |
| 78) Pyrene                  | 19.692 | 202  | 1344458  | 18.871 | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.445 | 228  | 570698   | 8.086  | ng    | 92       |
| 83) Chrysene                | 21.445 | 228  | 570698   | 8.376  | ng    | 95       |
| 87) Indeno(1,2,3-cd)pyrene  | 26.333 | 276  | 392220   | 5.140  | ng    | 95       |
| 88) Benzo(b)fluoranthene    | 23.121 | 252  | 1008110  | 15.910 | ng    | # 91     |
| 89) Benzo(k)fluoranthene    | 23.121 | 252  | 1008110  | 15.619 | ng    | # 91     |
| 90) Benzo(a)pyrene          | 23.745 | 252  | 592753   | 9.523  | ng    | # 92     |
| 92) Benzo(g,h,i)perylene    | 27.097 | 276  | 470556   | 7.468  | ng    | 97       |
| -----                       |        |      |          |        |       |          |

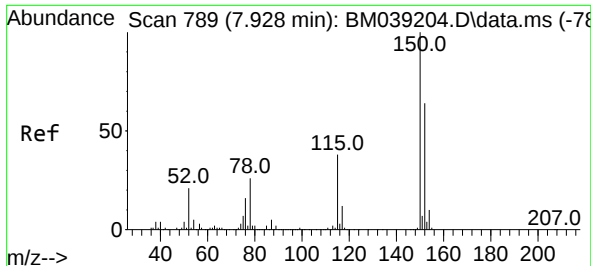
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041223\  
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Sample : 02284-01 2X  
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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Time: Apr 13 01:49:47 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM032923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Apr 11 16:05:42 2023  
Response via : Initial Calibration

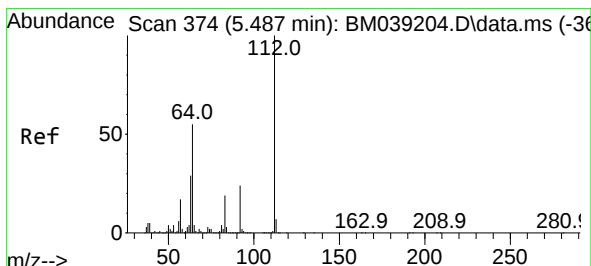
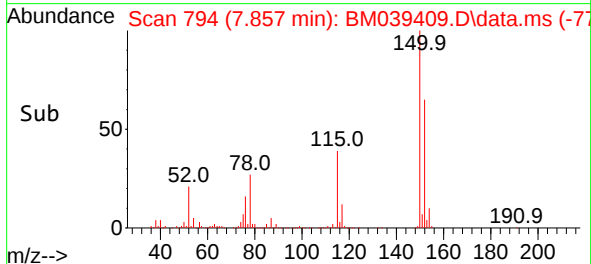
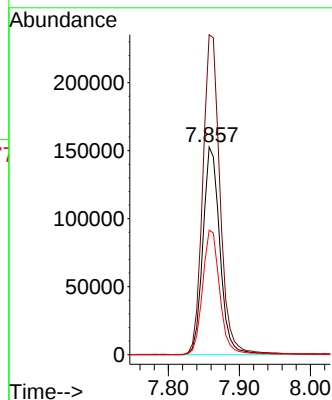
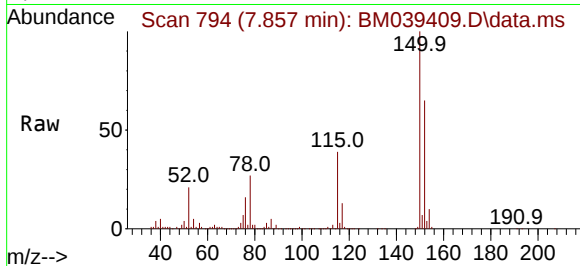




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.857 min Scan# 794  
Delta R.T. -0.006 min  
Lab File: BM039409.D  
Acq: 12 Apr 2023 18:39

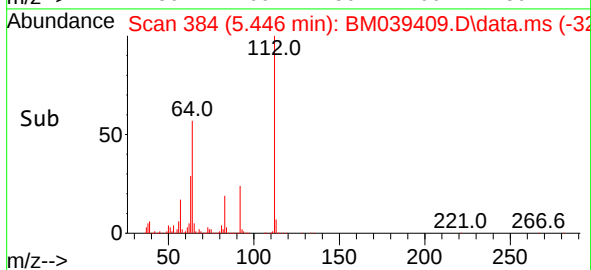
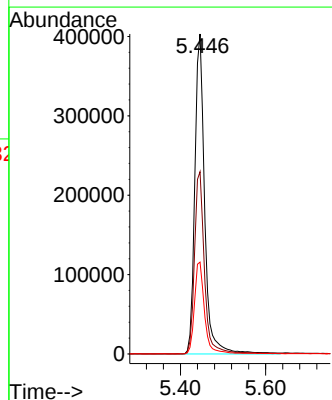
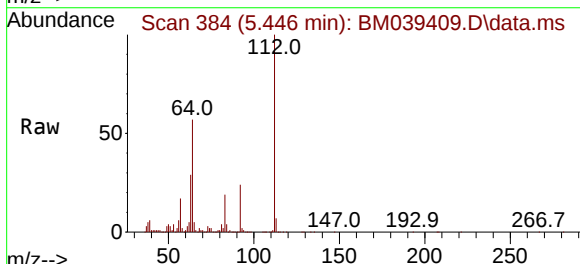
Instrument :  
BNA\_M  
ClientSampleId :  
OR-2-041123

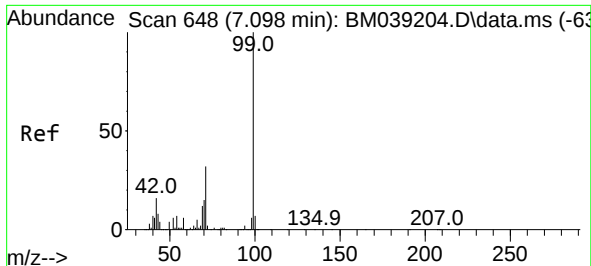
Tgt Ion:152 Resp: 254504  
Ion Ratio Lower Upper  
152 100  
150 154.1 125.5 188.3  
115 59.9 48.1 72.1



#5  
2-Fluorophenol  
Concen: 38.420 ng  
RT: 5.446 min Scan# 384  
Delta R.T. 0.024 min  
Lab File: BM039409.D  
Acq: 12 Apr 2023 18:39

Tgt Ion:112 Resp: 649012  
Ion Ratio Lower Upper  
112 100  
64 57.0 44.3 66.5  
63 28.7 23.0 34.6

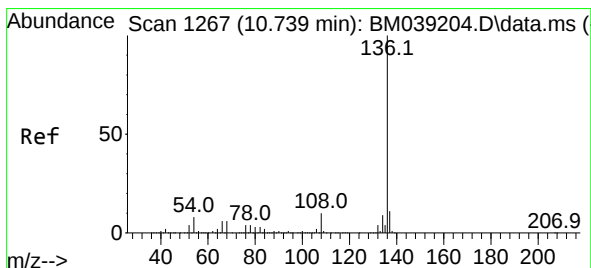
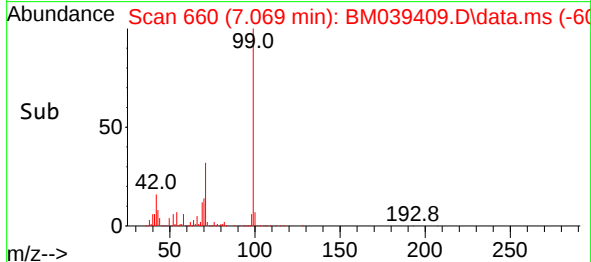
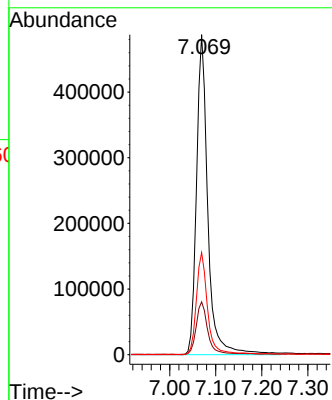
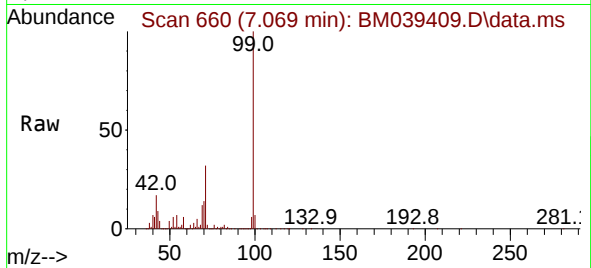




#7  
Phenol-d6  
Concen: 37.996 ng  
RT: 7.069 min Scan# 60  
Delta R.T. 0.036 min  
Lab File: BM039409.D  
Acq: 12 Apr 2023 18:39

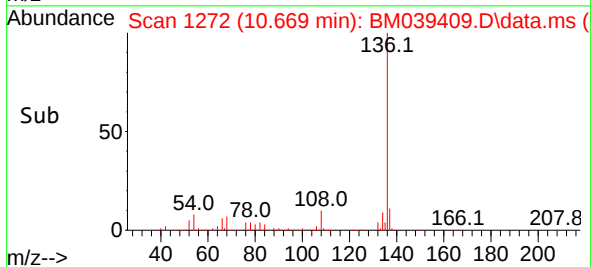
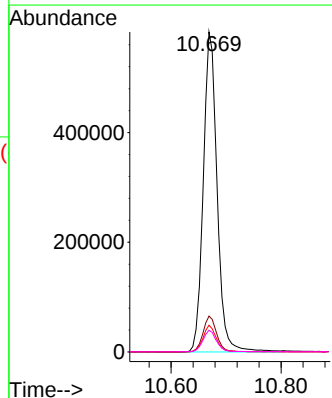
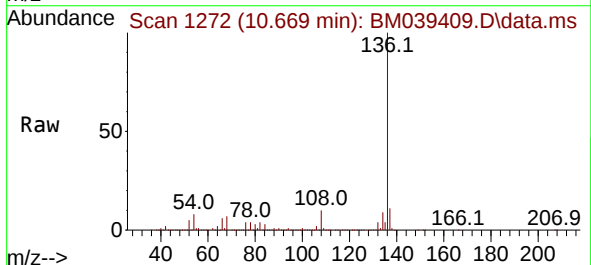
Instrument :  
BNA\_M  
ClientSampleId :  
OR-2-041123

Tgt Ion: 99 Resp: 830178  
Ion Ratio Lower Upper  
99 100  
42 16.5 13.0 19.6  
71 31.9 25.5 38.3



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.669 min Scan# 1272  
Delta R.T. -0.006 min  
Lab File: BM039409.D  
Acq: 12 Apr 2023 18:39

Tgt Ion: 136 Resp: 1018115  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.9 13.3  
54 8.4 6.2 9.4  
68 6.8 4.9 7.3

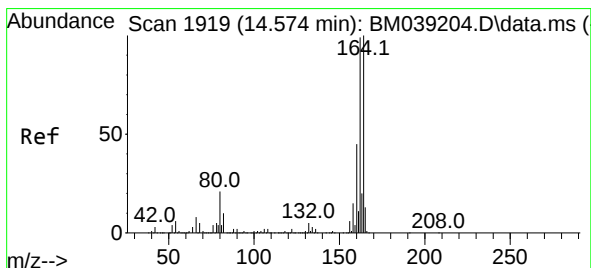
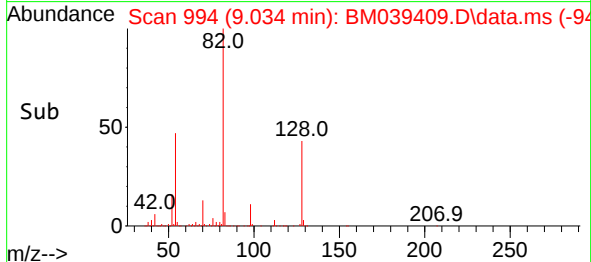
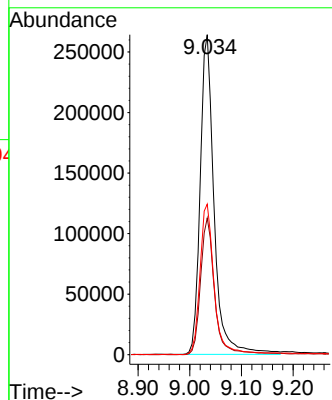
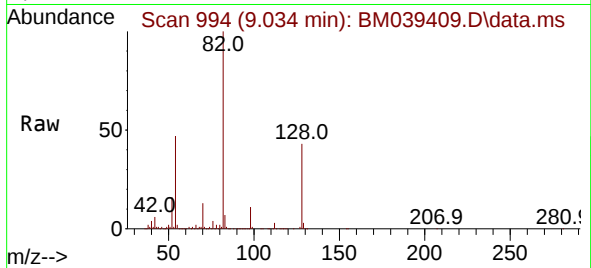




#23  
 Nitrobenzene-d5  
 Concen: 23.620 ng  
 RT: 9.034 min Scan# 994  
 Delta R.T. 0.000 min  
 Lab File: BM039409.D  
 Acq: 12 Apr 2023 18:39

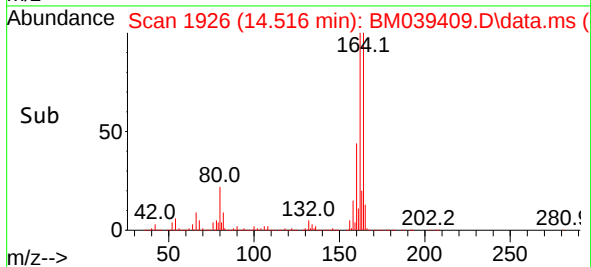
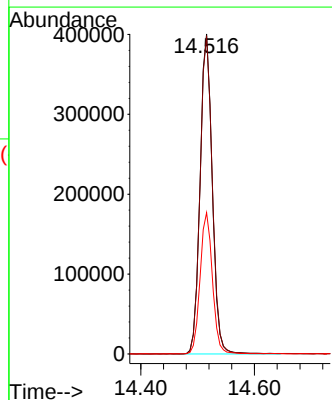
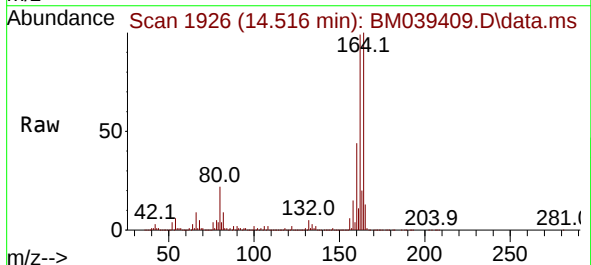
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 OR-2-041123

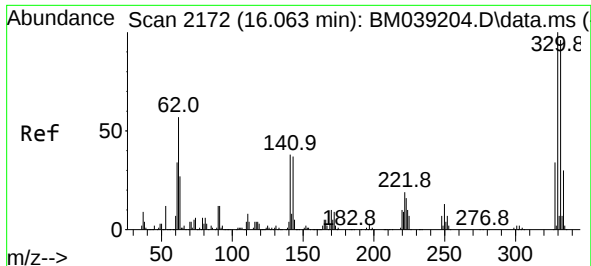
Tgt Ion: 82 Resp: 494779  
 Ion Ratio Lower Upper  
 82 100  
 128 42.7 35.1 52.7  
 54 47.1 38.5 57.7



#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.516 min Scan# 1926  
 Delta R.T. 0.000 min  
 Lab File: BM039409.D  
 Acq: 12 Apr 2023 18:39

Tgt Ion: 164 Resp: 597887  
 Ion Ratio Lower Upper  
 164 100  
 162 99.5 79.1 118.7  
 160 44.1 35.8 53.8

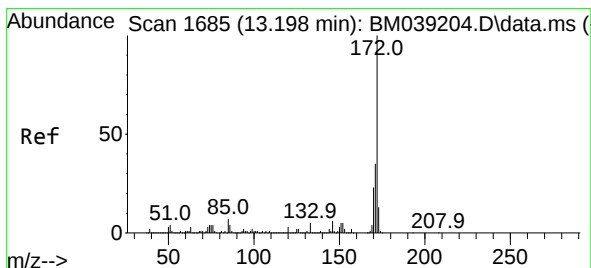
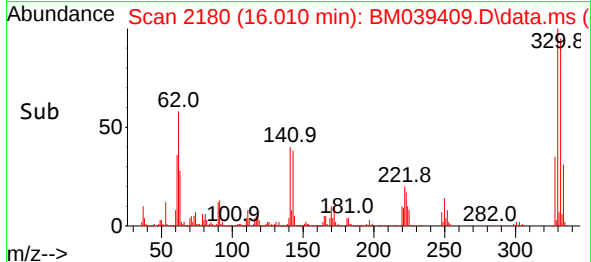
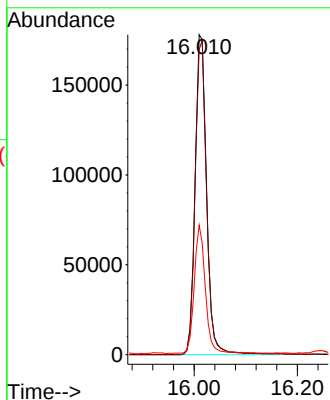
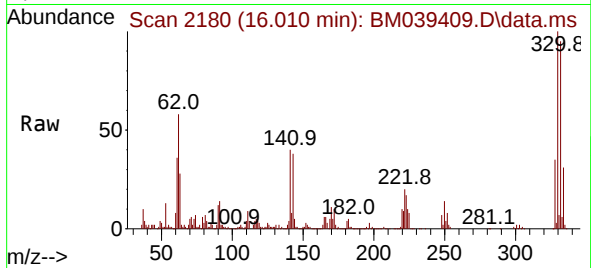




#42  
2,4,6-Tribromophenol  
Concen: 36.376 ng  
RT: 16.010 min Scan# 2172  
Delta R.T. -0.006 min  
Lab File: BM039409.D  
Acq: 12 Apr 2023 18:39

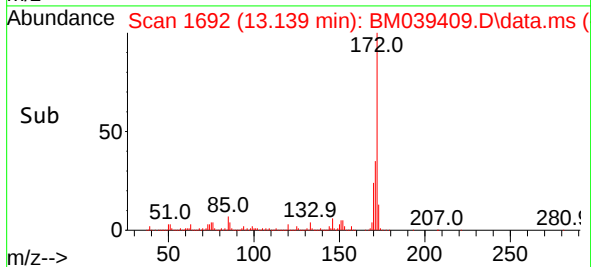
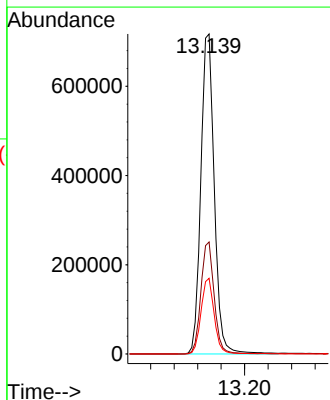
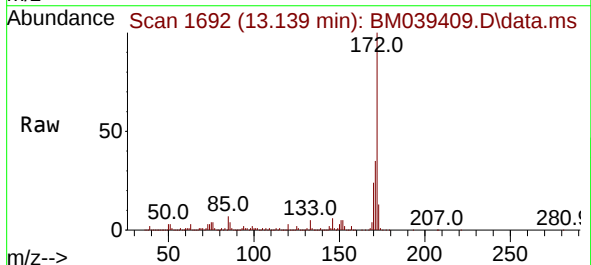
Instrument :  
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ClientSampleId :  
OR-2-041123

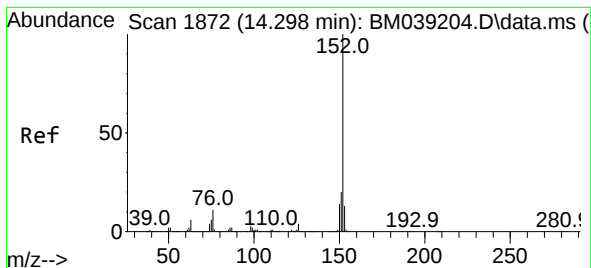
Tgt Ion:330 Resp: 276081  
Ion Ratio Lower Upper  
330 100  
332 97.4 77.4 116.0  
141 39.3 29.8 44.6



#45  
2-Fluorobiphenyl  
Concen: 25.815 ng  
RT: 13.139 min Scan# 1692  
Delta R.T. 0.000 min  
Lab File: BM039409.D  
Acq: 12 Apr 2023 18:39

Tgt Ion:172 Resp: 1139130  
Ion Ratio Lower Upper  
172 100  
171 35.0 28.0 42.0  
170 23.6 18.7 28.1





#49

Acenaphthylene

Concen: 4.607 ng

RT: 14.239 min Scan# 1

Delta R.T. 0.000 min

Lab File: BM039409.D

Acq: 12 Apr 2023 18:39

Instrument :

BNA\_M

ClientSampleId :

OR-2-041123

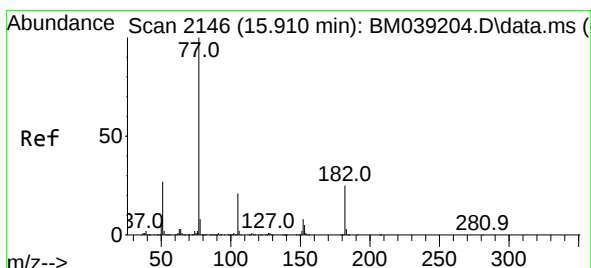
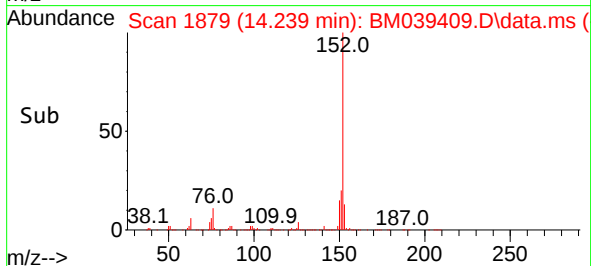
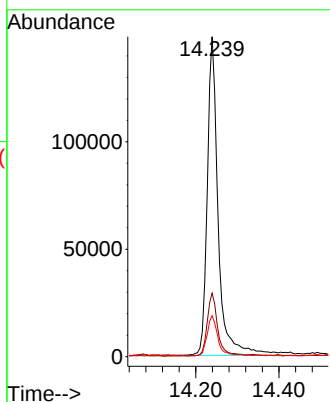
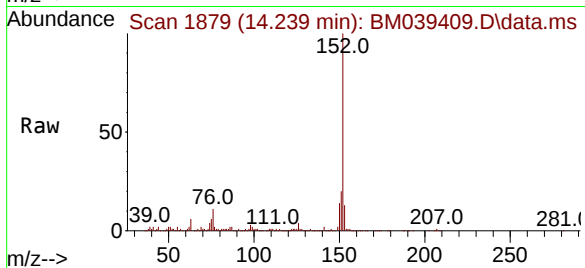
Tgt Ion:152 Resp: 270711

Ion Ratio Lower Upper

152 100

151 19.9 15.7 23.5

153 12.8 10.3 15.5



#63

Azobenzene

Concen: 2.820 ng

RT: 15.874 min Scan# 2157

Delta R.T. 0.018 min

Lab File: BM039409.D

Acq: 12 Apr 2023 18:39

Tgt Ion: 77 Resp: 131047

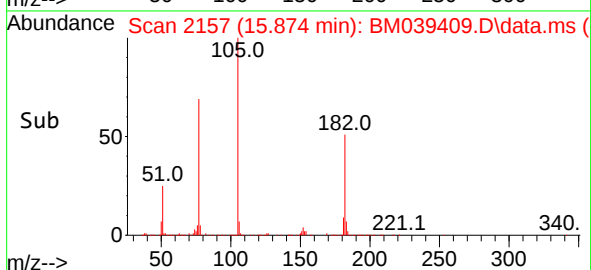
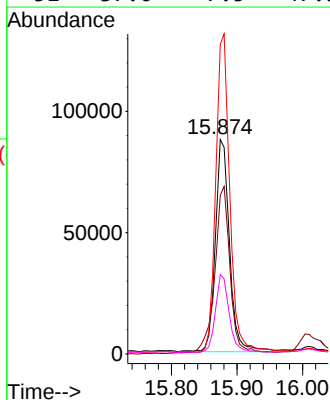
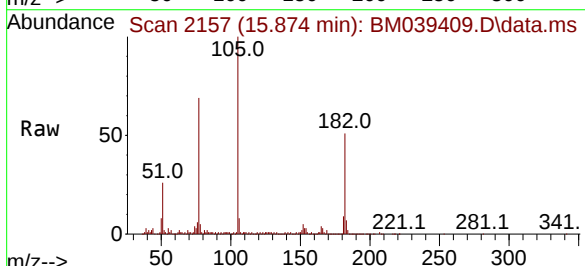
Ion Ratio Lower Upper

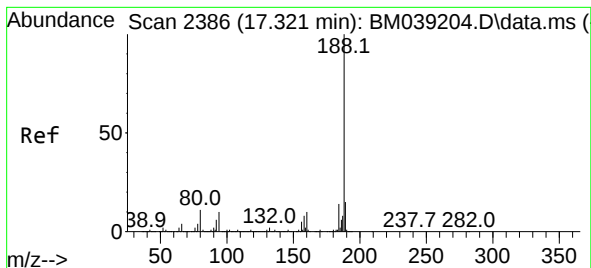
77 100

182 73.9 4.8 44.8#

105 144.3 1.4 41.4#

51 37.0 7.5 47.5





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.269 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM039409.D

Acq: 12 Apr 2023 18:39

Instrument :

BNA\_M

ClientSampleId :

OR-2-041123

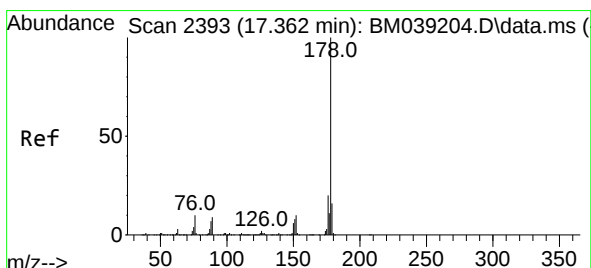
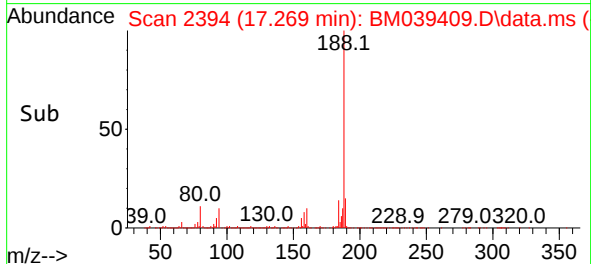
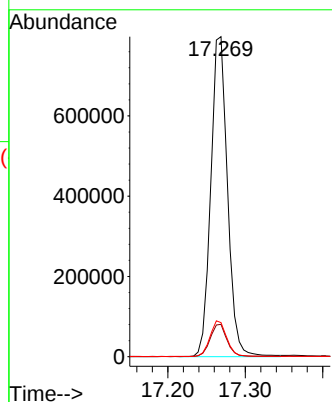
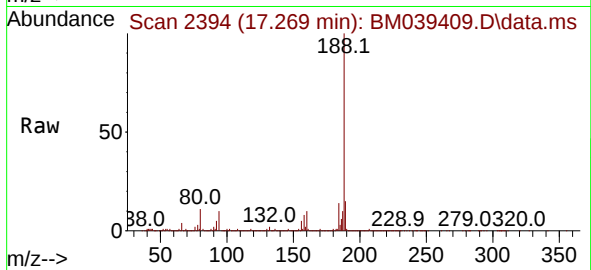
Tgt Ion:188 Resp: 1194308

Ion Ratio Lower Upper

188 100

94 10.1 8.2 12.4

80 10.7 8.9 13.3



#71

Phenanthrene

Concen: 9.168 ng

RT: 17.310 min Scan# 2401

Delta R.T. 0.000 min

Lab File: BM039409.D

Acq: 12 Apr 2023 18:39

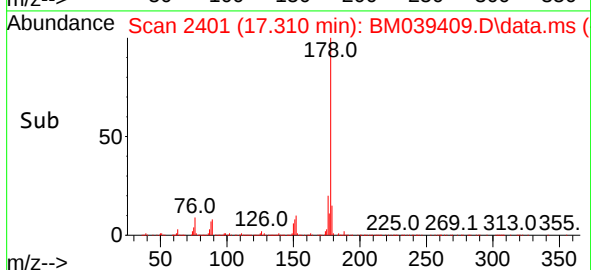
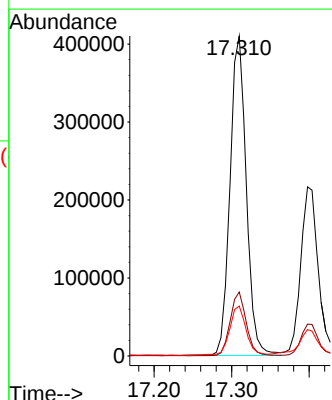
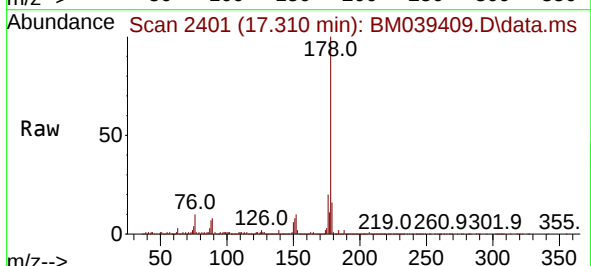
Tgt Ion:178 Resp: 599668

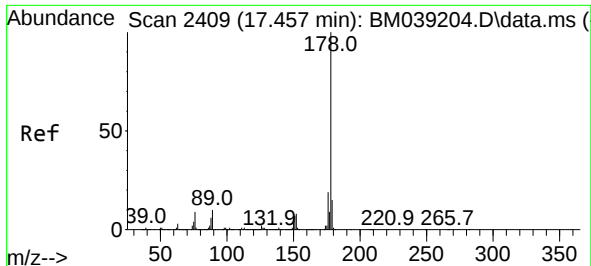
Ion Ratio Lower Upper

178 100

176 20.0 15.7 23.5

179 15.6 12.4 18.6

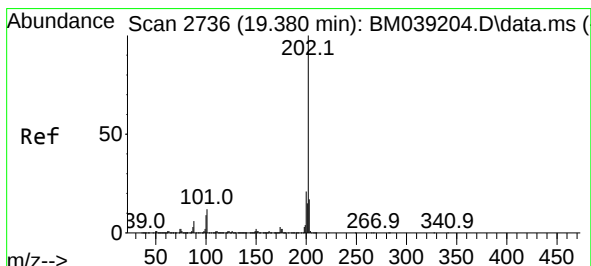
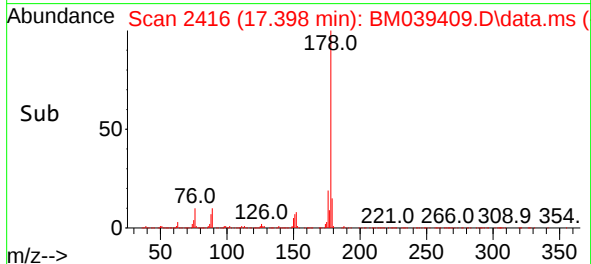
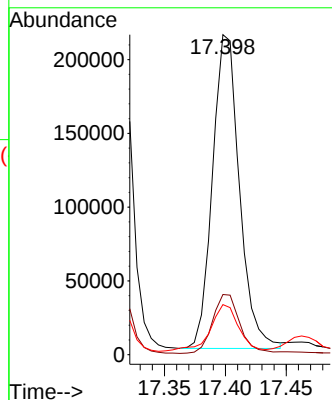
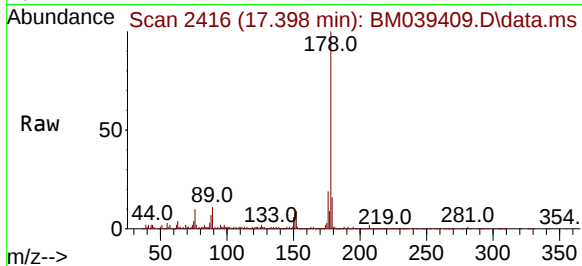




#72  
 Anthracene  
 Concen: 4.914 ng  
 RT: 17.398 min Scan# 24  
 Delta R.T. -0.006 min  
 Lab File: BM039409.D  
 Acq: 12 Apr 2023 18:39

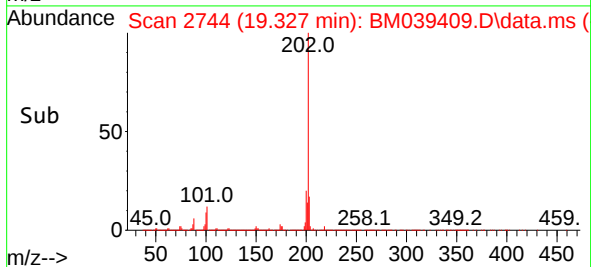
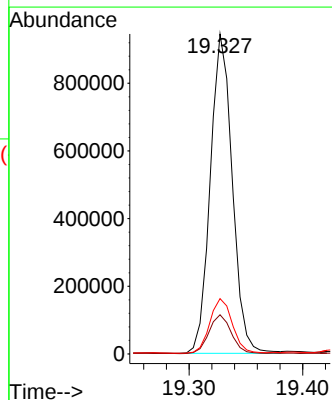
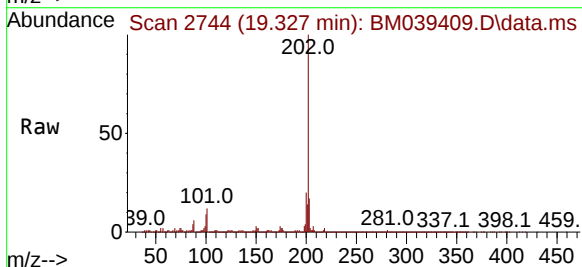
Instrument :  
 BNA\_M  
 ClientSampleId :  
 OR-2-041123

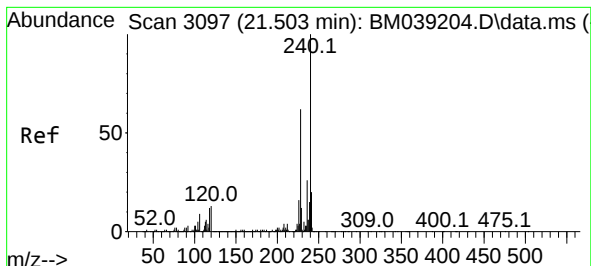
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 Ion Ratio Lower Upper  
 178 100  
 176 18.8 14.9 22.3  
 179 15.6 12.2 18.2



#75  
 Fluoranthene  
 Concen: 17.056 ng  
 RT: 19.327 min Scan# 2744  
 Delta R.T. -0.006 min  
 Lab File: BM039409.D  
 Acq: 12 Apr 2023 18:39

Tgt Ion:202 Resp: 1271753  
 Ion Ratio Lower Upper  
 202 100  
 101 12.3 0.0 32.5  
 203 17.3 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.456 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM039409.D

Acq: 12 Apr 2023 18:39

Instrument :

BNA\_M

ClientSampleId :

OR-2-041123

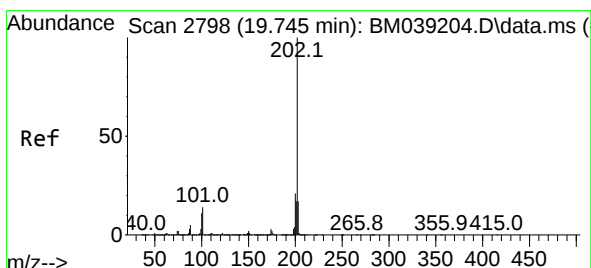
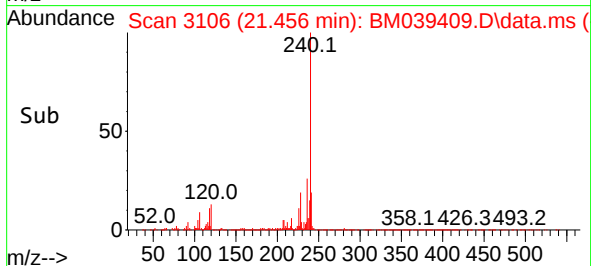
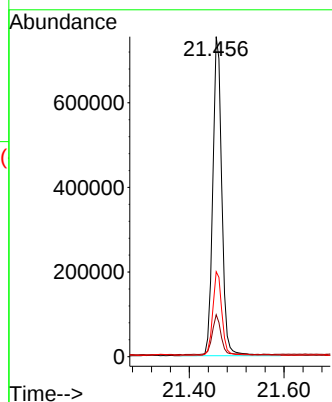
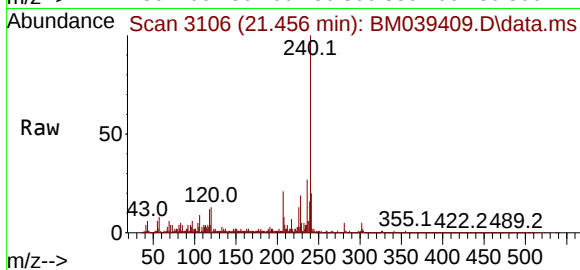
Tgt Ion:240 Resp: 1000795

Ion Ratio Lower Upper

240 100

120 13.1 10.2 15.2

236 26.6 20.9 31.3



#78

Pyrene

Concen: 18.871 ng

RT: 19.692 min Scan# 2806

Delta R.T. -0.006 min

Lab File: BM039409.D

Acq: 12 Apr 2023 18:39

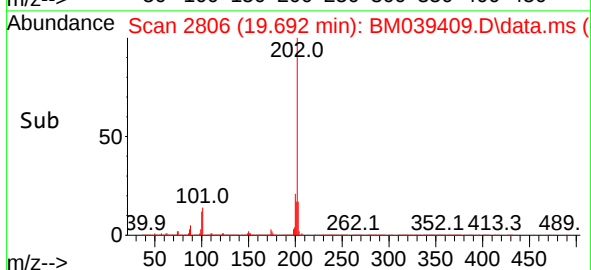
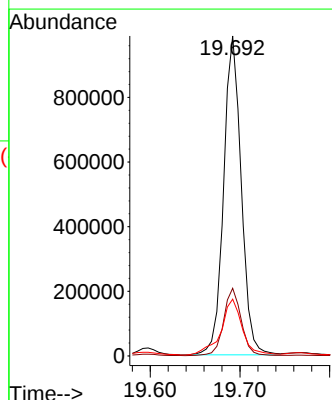
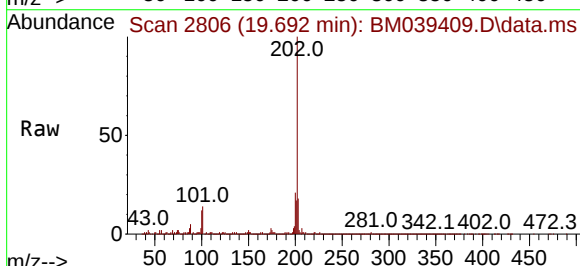
Tgt Ion:202 Resp: 1344458

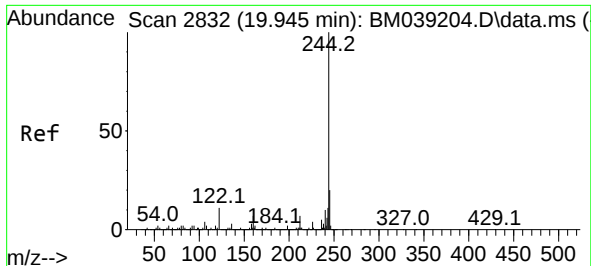
Ion Ratio Lower Upper

202 100

200 21.1 17.1 25.7

203 17.7 13.9 20.9

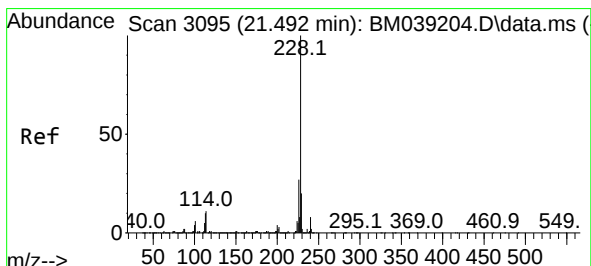
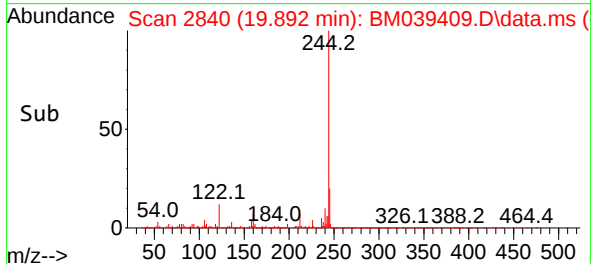
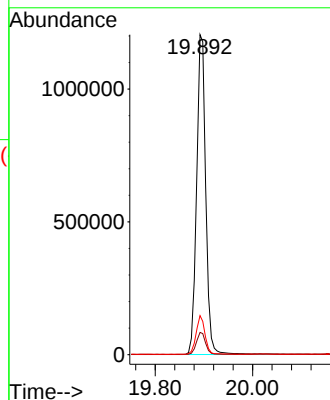
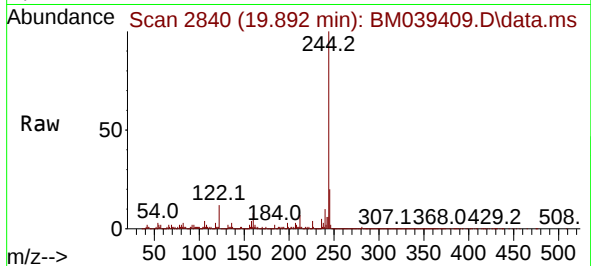




#79  
 Terphenyl-d14  
 Concen: 29.133 ng  
 RT: 19.892 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: BM039409.D  
 Acq: 12 Apr 2023 18:39

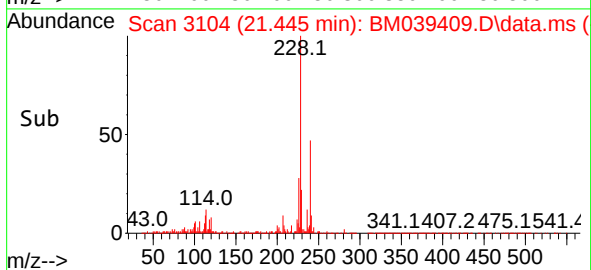
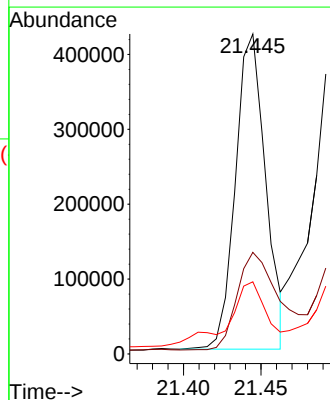
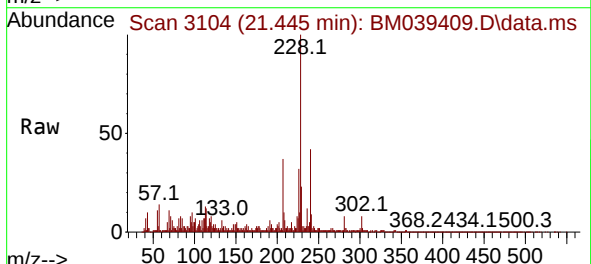
Instrument :  
 BNA\_M  
 ClientSampleId :  
 OR-2-041123

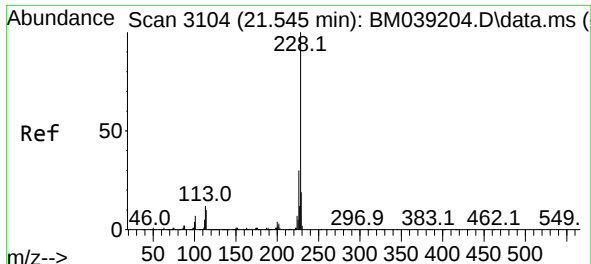
Tgt Ion:244 Resp: 1578096  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 5.6 8.4  
 122 12.2 9.1 13.7



#81  
 Benzo(a)anthracene  
 Concen: 8.086 ng  
 RT: 21.445 min Scan# 3104  
 Delta R.T. 0.000 min  
 Lab File: BM039409.D  
 Acq: 12 Apr 2023 18:39

Tgt Ion:228 Resp: 570698  
 Ion Ratio Lower Upper  
 228 100  
 226 31.8 21.9 32.9  
 229 22.6 15.8 23.6

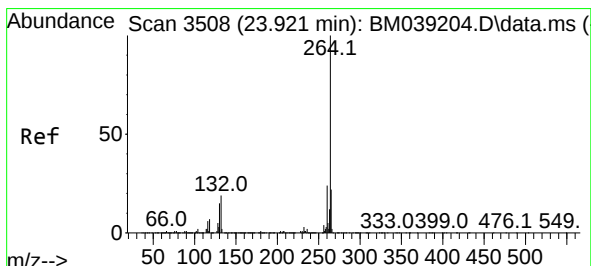
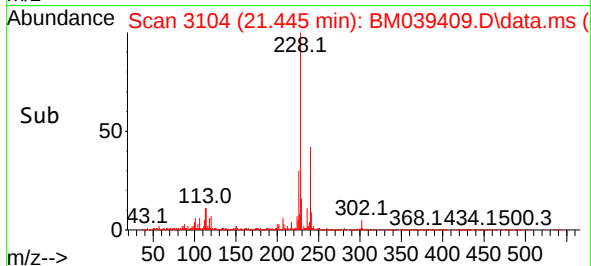
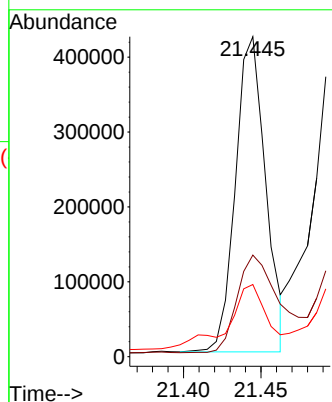
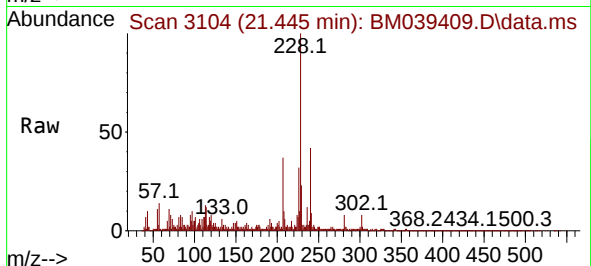




#83  
Chrysene  
Concen: 8.376 ng  
RT: 21.445 min Scan# 3104  
Delta R.T. -0.059 min  
Lab File: BM039409.D  
Acq: 12 Apr 2023 18:39

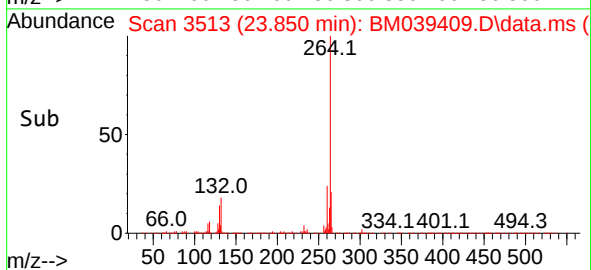
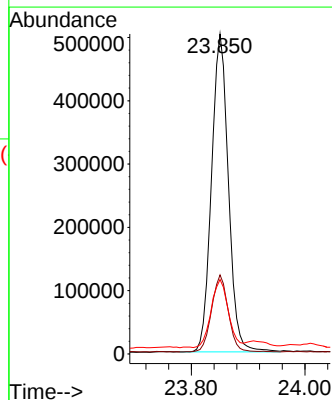
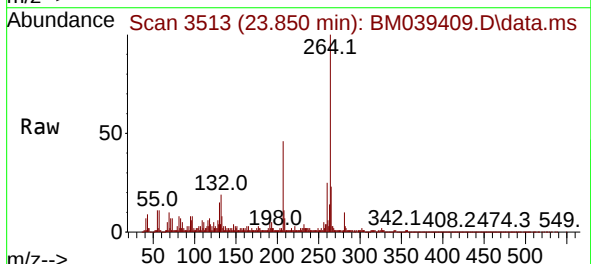
Instrument :  
BNA\_M  
ClientSampleId :  
OR-2-041123

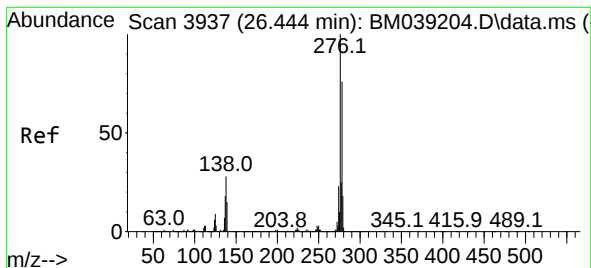
Tgt Ion:228 Resp: 570698  
Ion Ratio Lower Upper  
228 100  
226 31.8 24.1 36.1  
229 22.6 15.5 23.3



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.850 min Scan# 3513  
Delta R.T. 0.000 min  
Lab File: BM039409.D  
Acq: 12 Apr 2023 18:39

Tgt Ion:264 Resp: 1035578  
Ion Ratio Lower Upper  
264 100  
260 24.7 19.0 28.6  
265 23.2 18.1 27.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 5.140 ng

RT: 26.333 min Scan# 3935

Delta R.T. -0.006 min

Lab File: BM039409.D

Acq: 12 Apr 2023 18:39

Instrument :

BNA\_M

ClientSampleId :

OR-2-041123

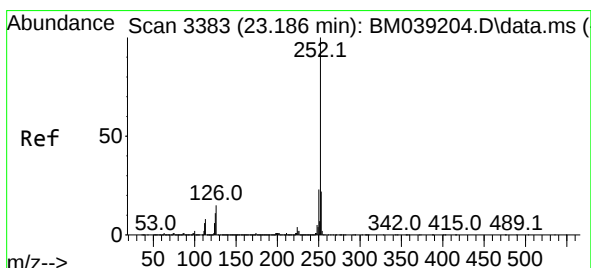
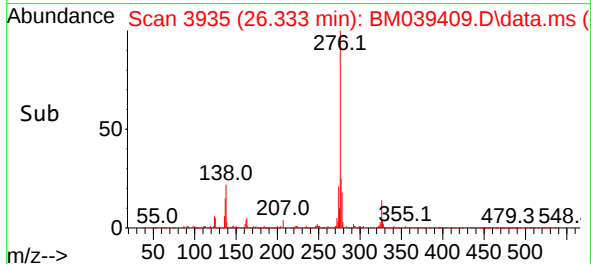
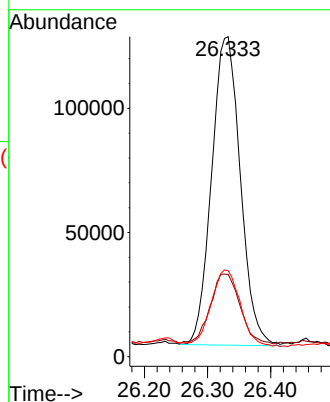
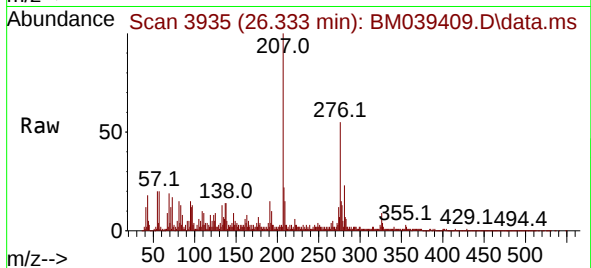
Tgt Ion:276 Resp: 392220

Ion Ratio Lower Upper

276 100

138 23.3 22.2 33.2

277 25.4 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 15.910 ng

RT: 23.121 min Scan# 3389

Delta R.T. -0.006 min

Lab File: BM039409.D

Acq: 12 Apr 2023 18:39

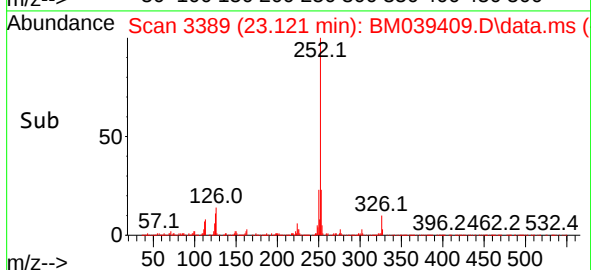
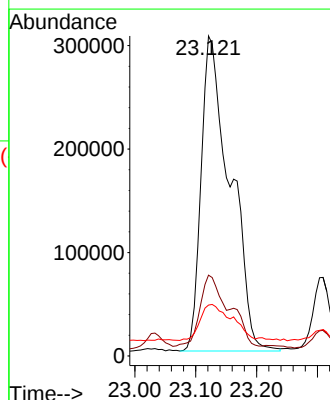
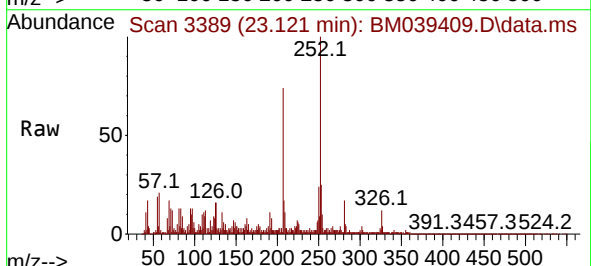
Tgt Ion:252 Resp: 1008110

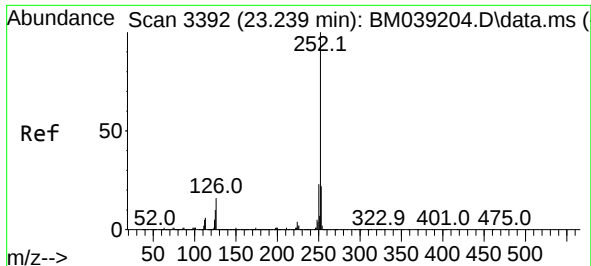
Ion Ratio Lower Upper

252 100

253 25.3 17.6 26.4

125 15.9 9.0 13.6#

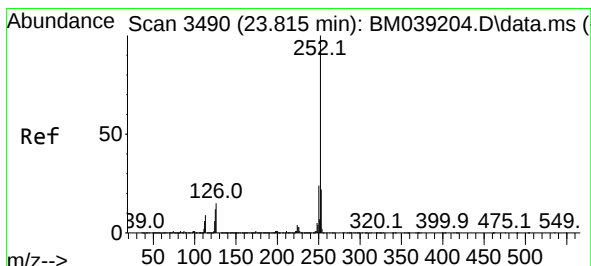
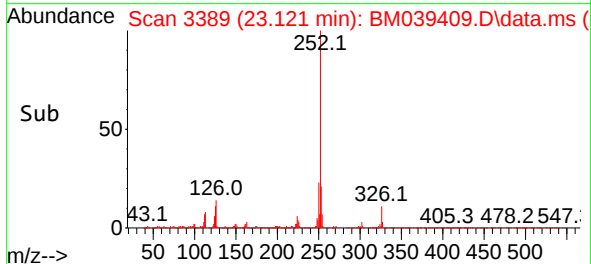
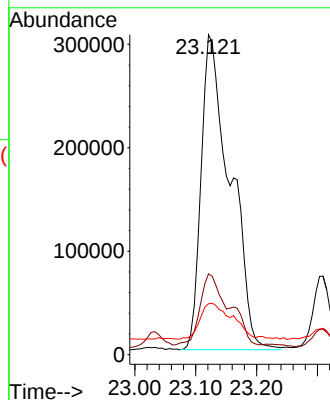
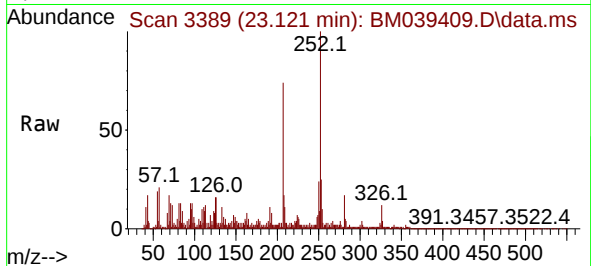




#89  
Benzo(k)fluoranthene  
Concen: 15.619 ng  
RT: 23.121 min Scan# 31  
Delta R.T. -0.053 min  
Lab File: BM039409.D  
Acq: 12 Apr 2023 18:39

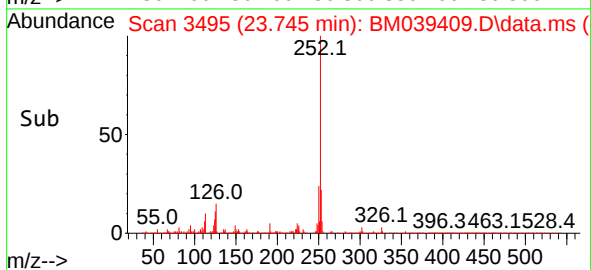
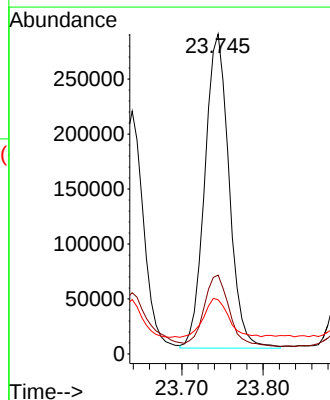
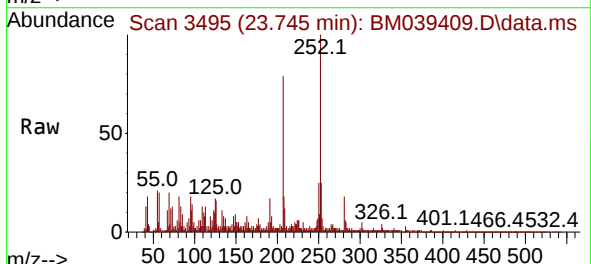
Instrument :  
BNA\_M  
ClientSampleId :  
OR-2-041123

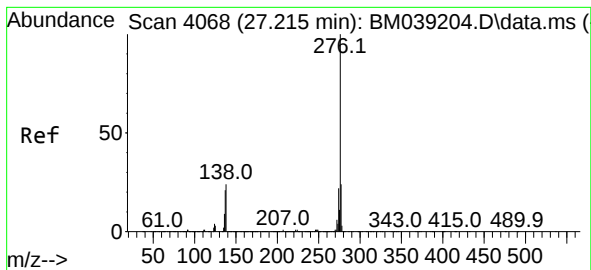
Tgt Ion:252 Resp: 1008110  
Ion Ratio Lower Upper  
252 100  
253 25.3 17.8 26.8  
125 15.9 8.5 12.7#



#90  
Benzo(a)pyrene  
Concen: 9.523 ng  
RT: 23.745 min Scan# 3495  
Delta R.T. -0.006 min  
Lab File: BM039409.D  
Acq: 12 Apr 2023 18:39

Tgt Ion:252 Resp: 592753  
Ion Ratio Lower Upper  
252 100  
253 24.7 17.6 26.4  
125 17.0 9.8 14.6#





#92

Benzo(g,h,i)perylene

Concen: 7.468 ng

RT: 27.097 min Scan# 4065

Delta R.T. -0.006 min

Lab File: BM039409.D

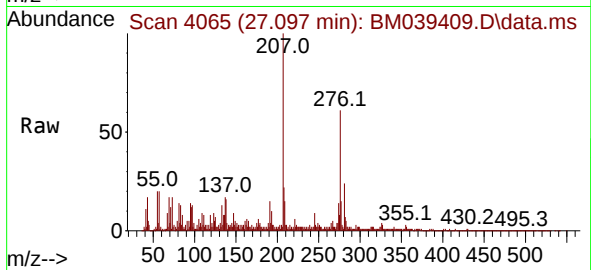
Acq: 12 Apr 2023 18:39

Instrument :

BNA\_M

ClientSampleId :

OR-2-041123



Tgt Ion:276 Resp: 470556

Ion Ratio Lower Upper

276 100

277 24.9 19.1 28.7

138 26.3 19.5 29.3

