

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041123\  
 Data File : BM039396.D  
 Acq On : 11 Apr 2023 16:43  
 Operator : CG/JU  
 Sample : 02260-07DL 5X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SP-1CDL

Quant Time: Apr 12 01:38:51 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

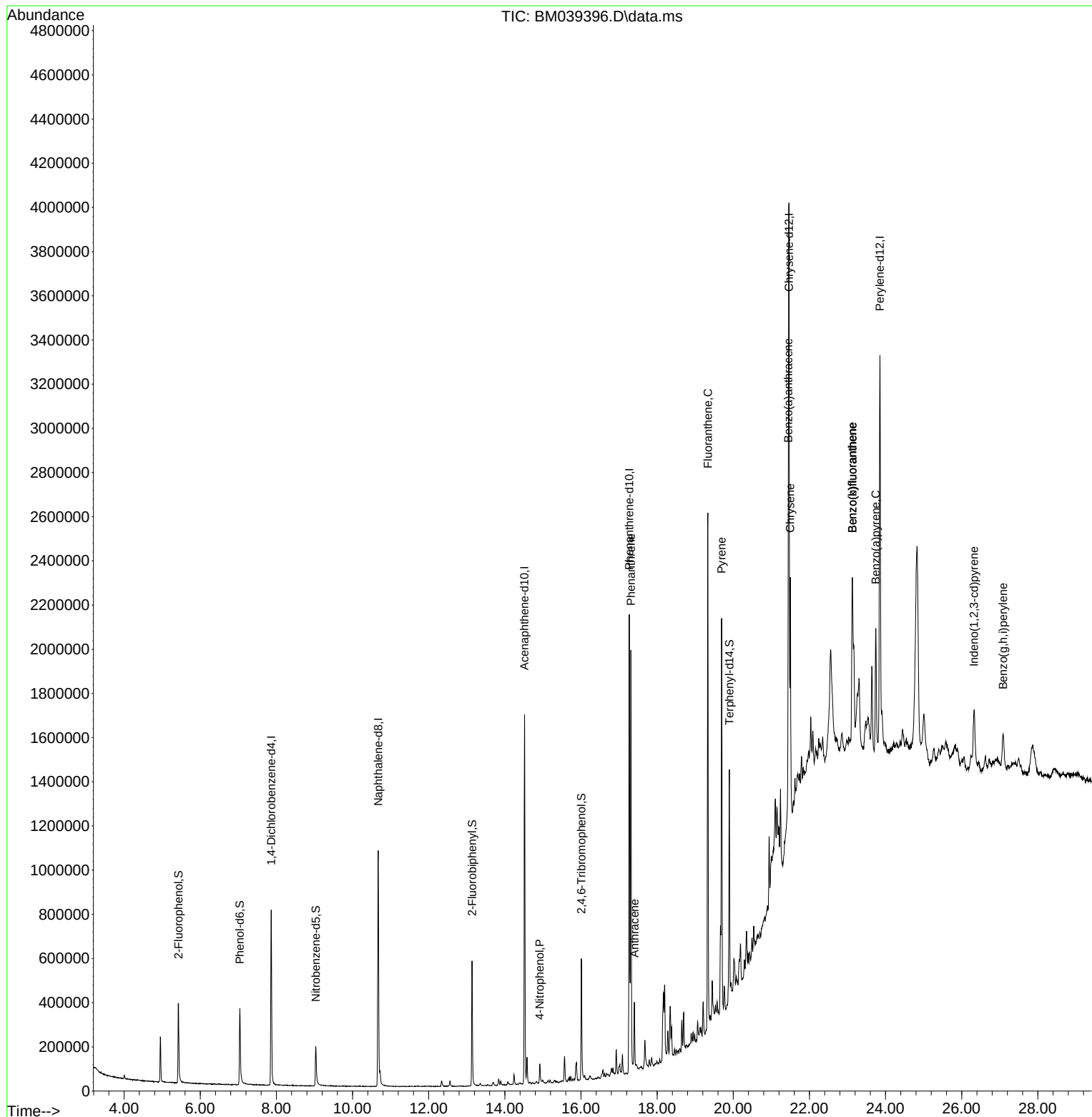
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.863  | 152  | 228965   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.675 | 136  | 955729   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.515 | 164  | 586831   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.268 | 188  | 1239691  | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.462 | 240  | 1142250  | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 23.850 | 264  | 1366798  | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.428  | 112  | 195007   | 12.832 | ng    | 0.00     |
| 7) Phenol-d6                | 7.039  | 99   | 253199   | 12.881 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.033  | 82   | 134734   | 6.852  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.009 | 330  | 92466    | 12.413 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.139 | 172  | 311479   | 7.192  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.897 | 244  | 521187   | 8.430  | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 56) 4-Nitrophenol           | 14.915 | 139  | 22821    | 2.632  | ng    | # 12     |
| 71) Phenanthrene            | 17.309 | 178  | 1128765  | 16.625 | ng    | 100      |
| 72) Anthracene              | 17.403 | 178  | 199519   | 2.882  | ng    | 99       |
| 75) Fluoranthene            | 19.333 | 202  | 1430736  | 18.486 | ng    | 99       |
| 78) Pyrene                  | 19.692 | 202  | 1120381  | 13.778 | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.444 | 228  | 582065   | 7.225  | ng    | 99       |
| 83) Chrysene                | 21.497 | 228  | 585545   | 7.529  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 26.321 | 276  | 264553   | 2.627  | ng    | 95       |
| 88) Benzo(b)fluoranthene    | 23.127 | 252  | 677937   | 8.106  | ng    | 96       |
| 89) Benzo(k)fluoranthene    | 23.127 | 252  | 677937   | 7.958  | ng    | # 96     |
| 90) Benzo(a)pyrene          | 23.744 | 252  | 429560   | 5.229  | ng    | # 96     |
| 92) Benzo(g,h,i)perylene    | 27.085 | 276  | 235175   | 2.828  | ng    | 96       |
| -----                       |        |      |          |        |       |          |

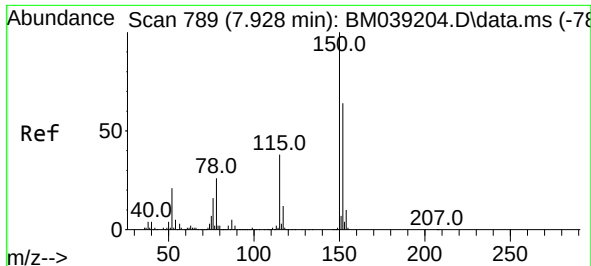
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041123\  
Data File : BM039396.D  
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Sample : 02260-07DL 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
SP-1CDL

Quant Time: Apr 12 01:38:51 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

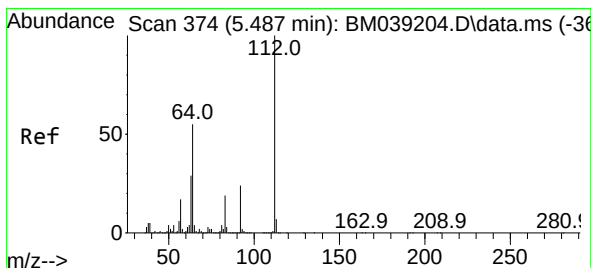
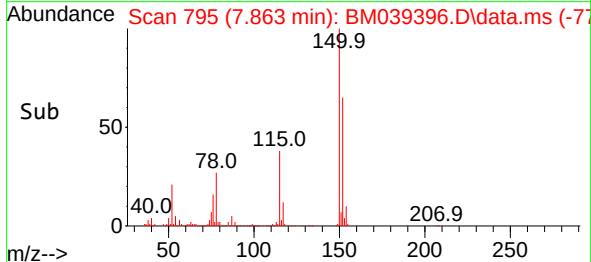
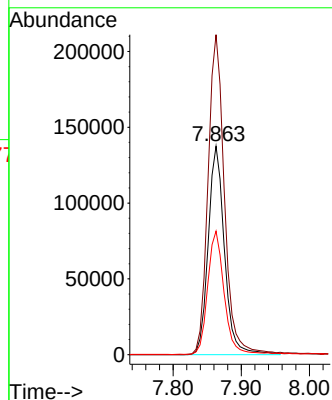
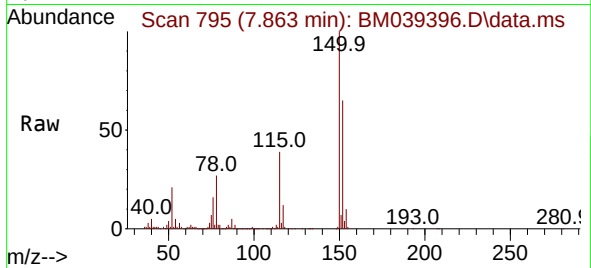




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.863 min Scan# 795  
Delta R.T. -0.000 min  
Lab File: BM039396.D  
Acq: 11 Apr 2023 16:43

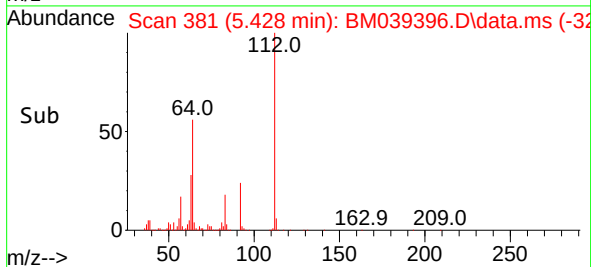
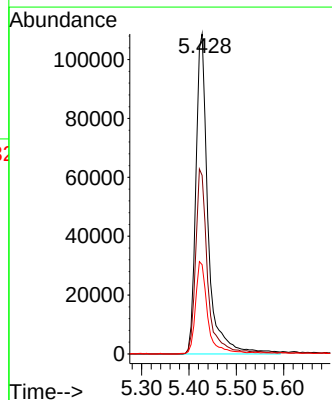
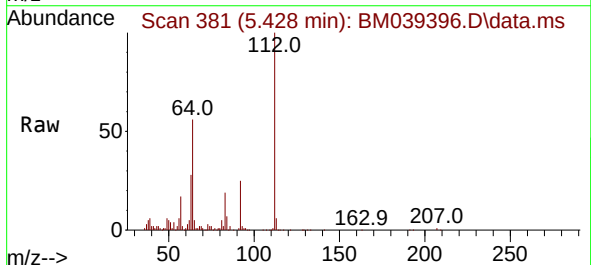
Instrument :  
BNA\_M  
ClientSampleId :  
SP-1CDL

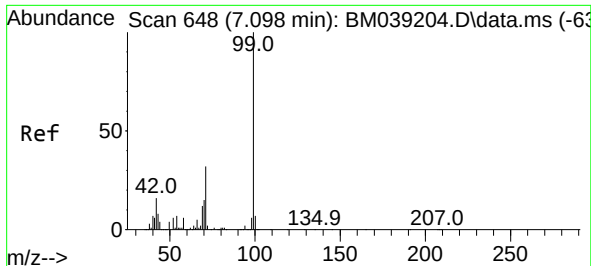
Tgt Ion:152 Resp: 228965  
Ion Ratio Lower Upper  
152 100  
150 153.5 125.5 188.3  
115 59.2 48.1 72.1



#5  
2-Fluorophenol  
Concen: 12.832 ng  
RT: 5.428 min Scan# 381  
Delta R.T. 0.006 min  
Lab File: BM039396.D  
Acq: 11 Apr 2023 16:43

Tgt Ion:112 Resp: 195007  
Ion Ratio Lower Upper  
112 100  
64 55.8 44.3 66.5  
63 27.9 23.0 34.6

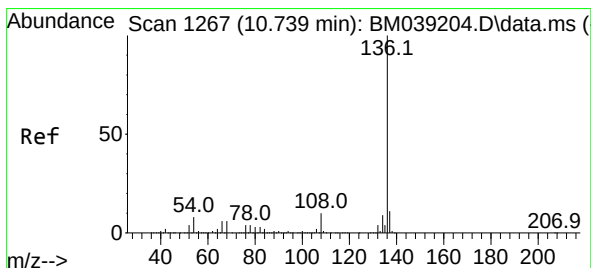
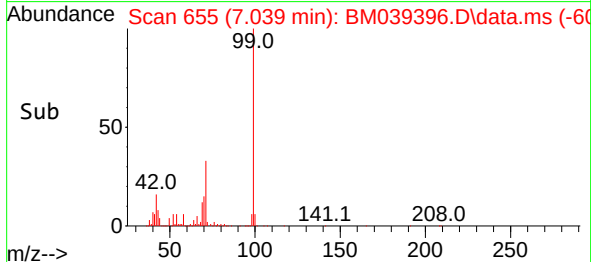
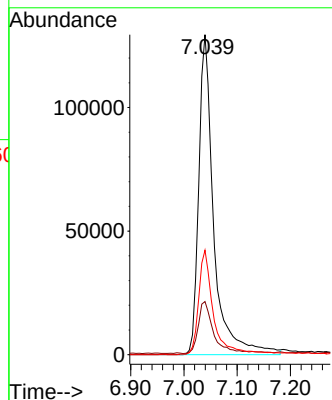
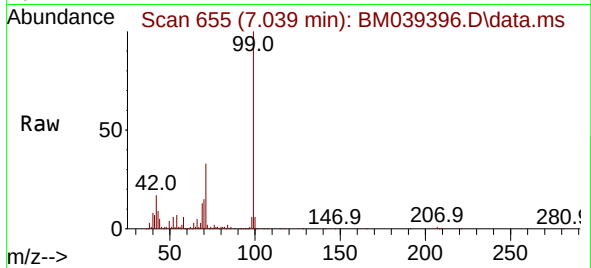




#7  
Phenol-d6  
Concen: 12.881 ng  
RT: 7.039 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: BM039396.D  
Acq: 11 Apr 2023 16:43

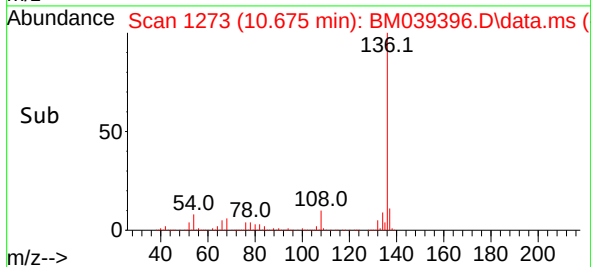
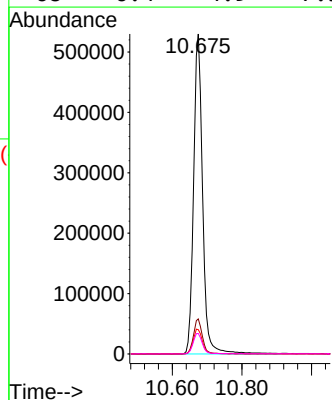
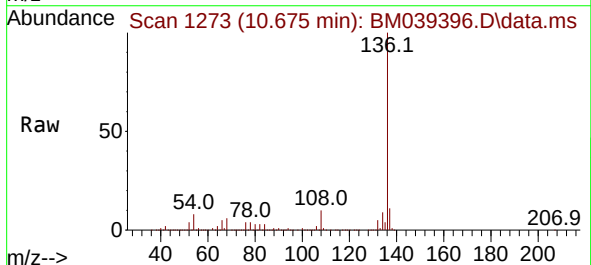
Instrument :  
BNA\_M  
ClientSampleId :  
SP-1CDL

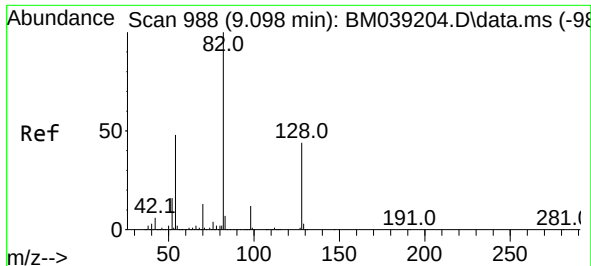
Tgt Ion: 99 Resp: 253199  
Ion Ratio Lower Upper  
99 100  
42 16.6 13.0 19.6  
71 32.7 25.5 38.3



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.675 min Scan# 1273  
Delta R.T. -0.000 min  
Lab File: BM039396.D  
Acq: 11 Apr 2023 16:43

Tgt Ion: 136 Resp: 955729  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.9 13.3  
54 7.6 6.2 9.4  
68 6.4 4.9 7.3

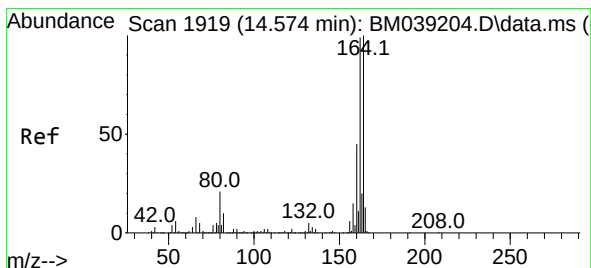
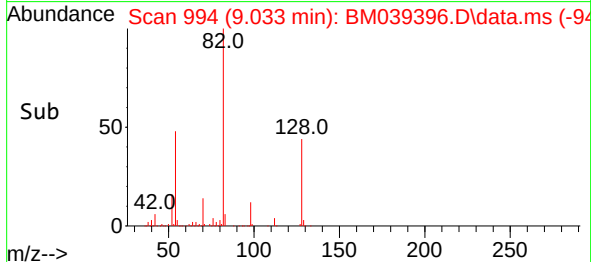
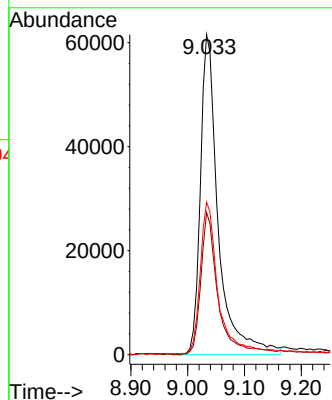
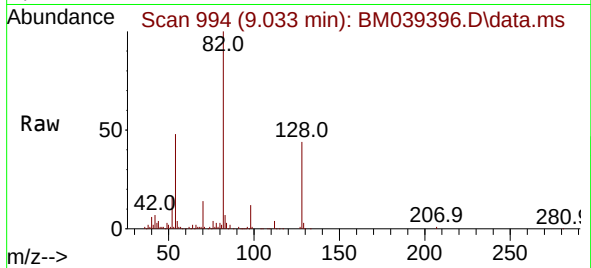




#23  
Nitrobenzene-d5  
Concen: 6.852 ng  
RT: 9.033 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BM039396.D  
Acq: 11 Apr 2023 16:43

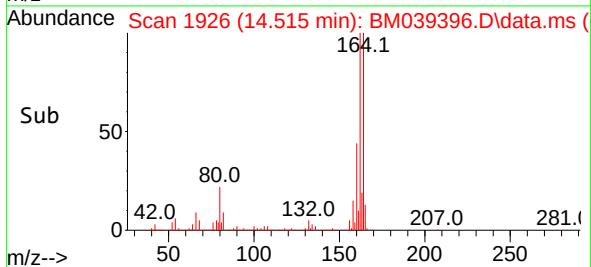
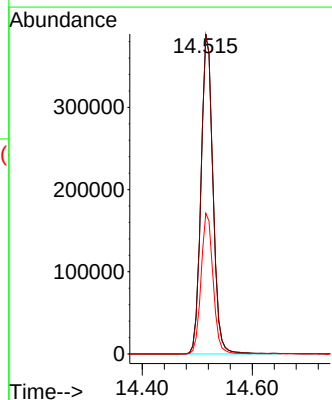
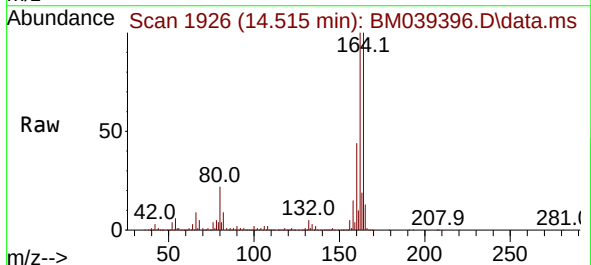
Instrument :  
BNA\_M  
ClientSampleId :  
SP-1CDL

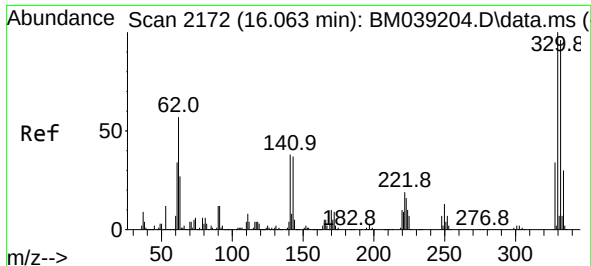
Tgt Ion: 82 Resp: 134734  
Ion Ratio Lower Upper  
82 100  
128 44.4 35.1 52.7  
54 47.7 38.5 57.7



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.515 min Scan# 1926  
Delta R.T. -0.000 min  
Lab File: BM039396.D  
Acq: 11 Apr 2023 16:43

Tgt Ion:164 Resp: 586831  
Ion Ratio Lower Upper  
164 100  
162 99.6 79.1 118.7  
160 44.0 35.8 53.8

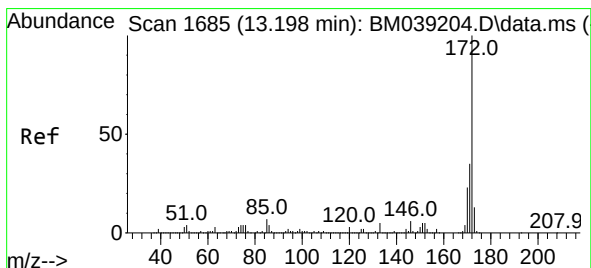
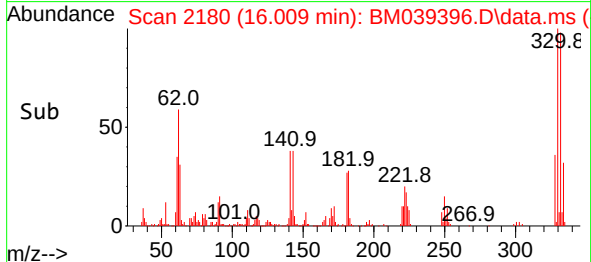
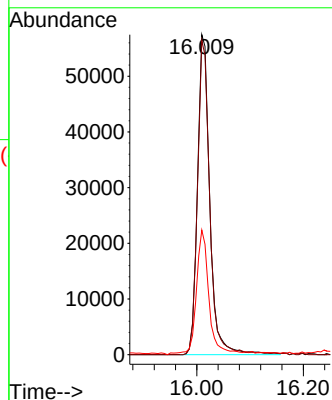
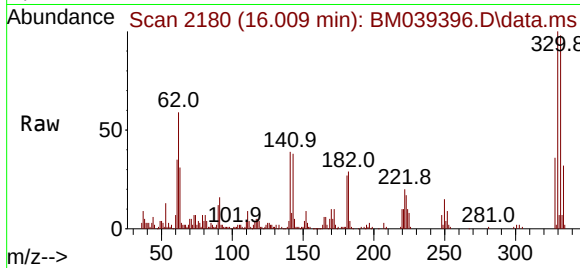




#42  
2,4,6-Tribromophenol  
Concen: 12.413 ng  
RT: 16.009 min Scan# 2172  
Delta R.T. -0.006 min  
Lab File: BM039396.D  
Acq: 11 Apr 2023 16:43

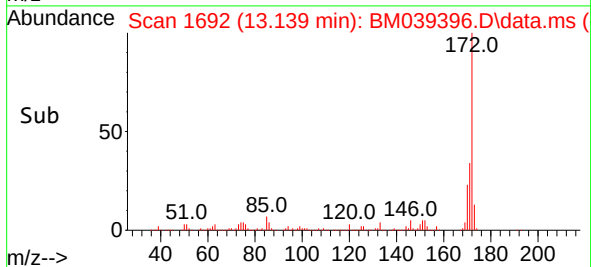
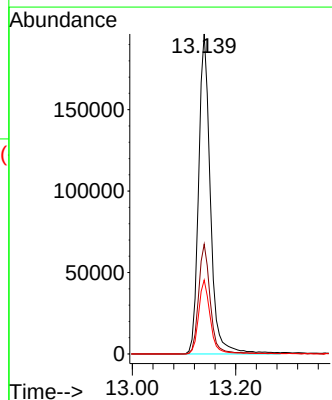
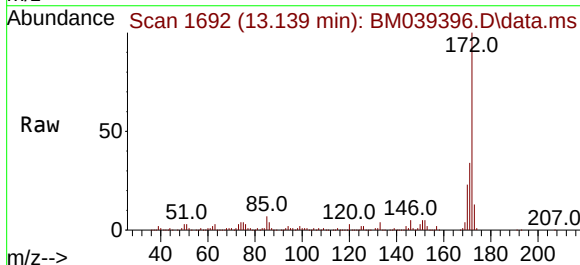
Instrument :  
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ClientSampleId :  
SP-1CDL

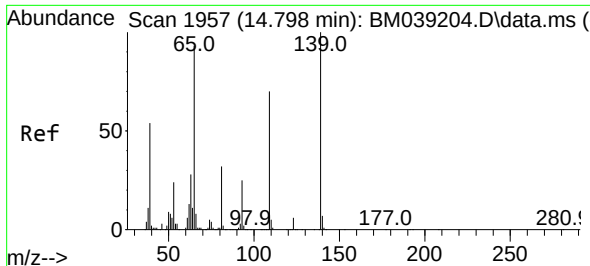
Tgt Ion:330 Resp: 92466  
Ion Ratio Lower Upper  
330 100  
332 96.9 77.4 116.0  
141 39.8 29.8 44.6



#45  
2-Fluorobiphenyl  
Concen: 7.192 ng  
RT: 13.139 min Scan# 1692  
Delta R.T. -0.000 min  
Lab File: BM039396.D  
Acq: 11 Apr 2023 16:43

Tgt Ion:172 Resp: 311479  
Ion Ratio Lower Upper  
172 100  
171 34.3 28.0 42.0  
170 23.1 18.7 28.1

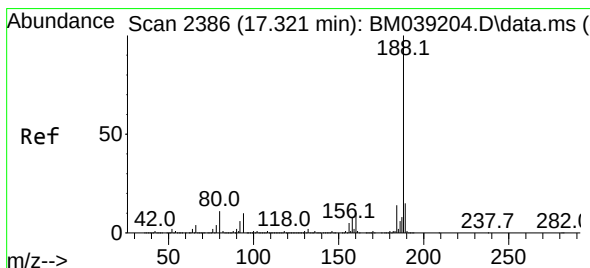
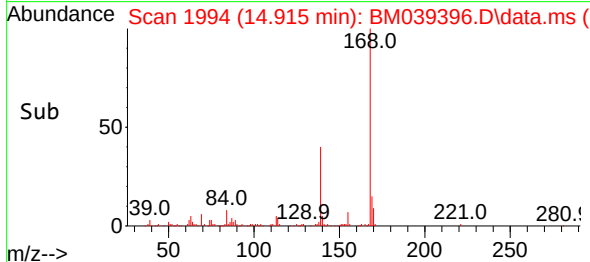
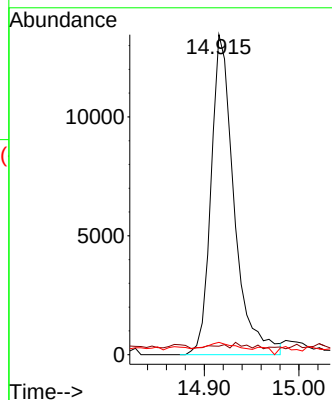
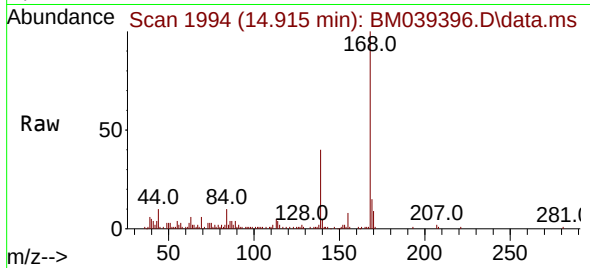




#56  
4-Nitrophenol  
Concen: 2.632 ng  
RT: 14.915 min Scan# 1994  
Delta R.T. 0.159 min  
Lab File: BM039396.D  
Acq: 11 Apr 2023 16:43

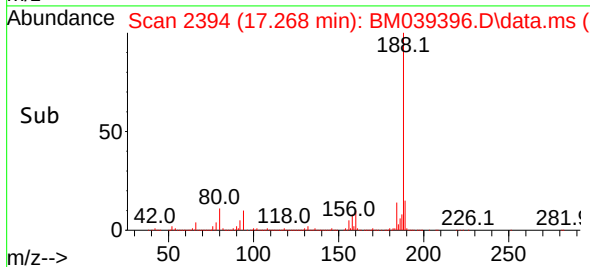
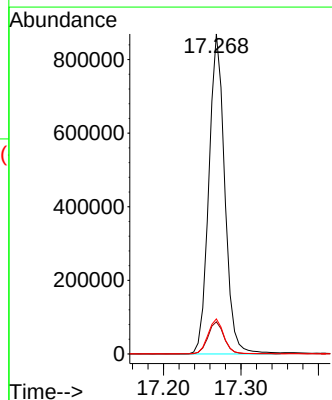
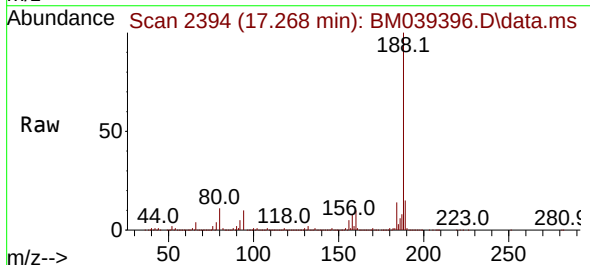
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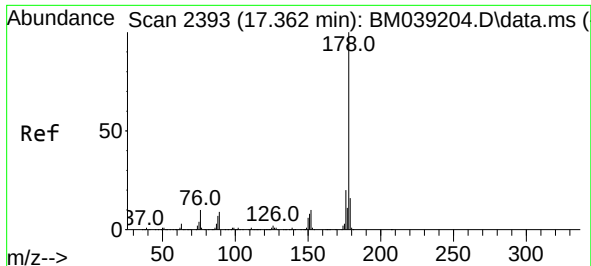
Tgt Ion:139 Resp: 22821  
Ion Ratio Lower Upper  
139 100  
109 2.7 49.6 89.6#  
65 3.8 72.9 112.9#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.268 min Scan# 2394  
Delta R.T. -0.000 min  
Lab File: BM039396.D  
Acq: 11 Apr 2023 16:43

Tgt Ion:188 Resp: 1239691  
Ion Ratio Lower Upper  
188 100  
94 10.0 8.2 12.4  
80 10.9 8.9 13.3

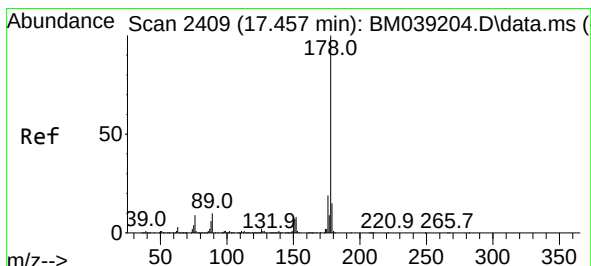
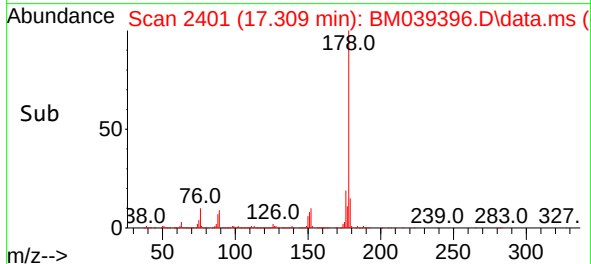
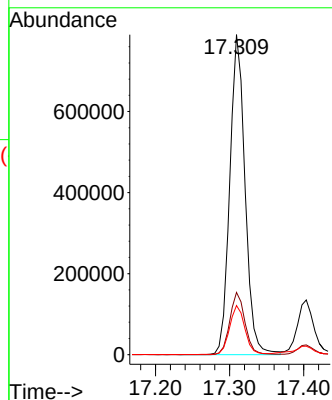
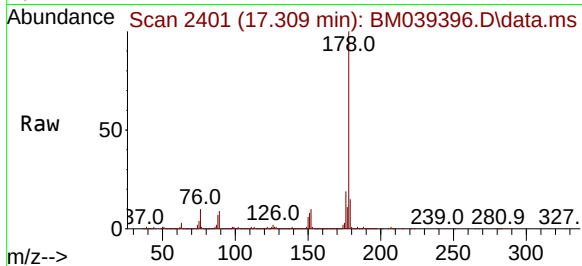




#71  
Phenanthrene  
Concen: 16.625 ng  
RT: 17.309 min Scan# 2417  
Delta R.T. -0.000 min  
Lab File: BM039396.D  
Acq: 11 Apr 2023 16:43

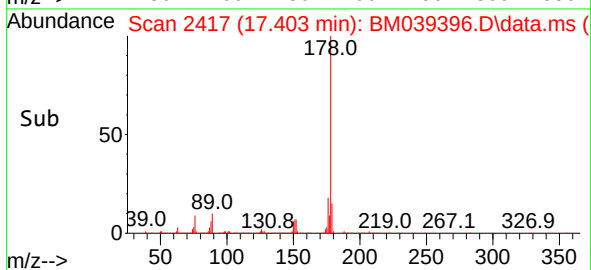
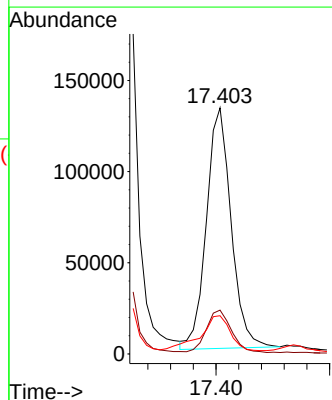
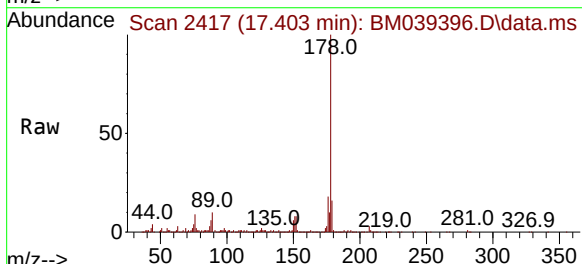
Instrument :  
BNA\_M  
ClientSampleId :  
SP-1CDL

Tgt Ion:178 Resp: 1128765  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.7 23.5  
179 15.3 12.4 18.6

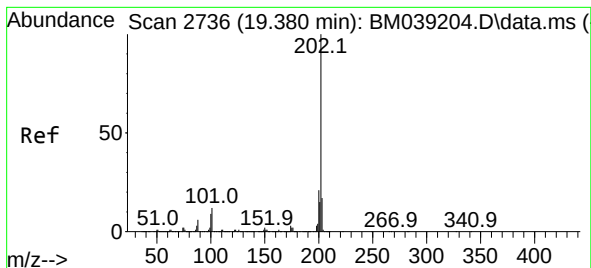


#72  
Anthracene  
Concen: 2.882 ng  
RT: 17.403 min Scan# 2417  
Delta R.T. -0.000 min  
Lab File: BM039396.D  
Acq: 11 Apr 2023 16:43

Tgt Ion:178 Resp: 199519  
Ion Ratio Lower Upper  
178 100  
176 17.8 14.9 22.3  
179 15.6 12.2 18.2







#75

Fluoranthene

Concen: 18.486 ng

RT: 19.333 min Scan# 21

Delta R.T. -0.000 min

Lab File: BM039396.D

Acq: 11 Apr 2023 16:43

Instrument :

BNA\_M

ClientSampleId :

SP-1CDL

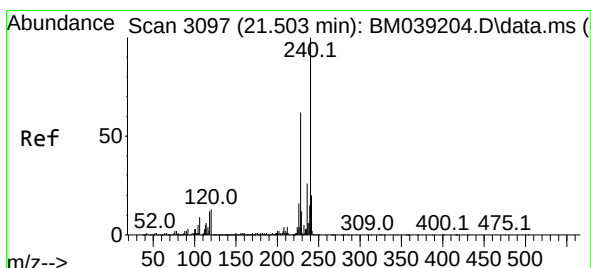
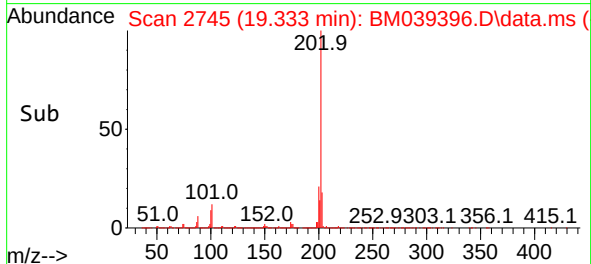
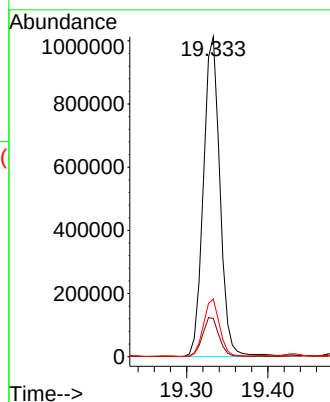
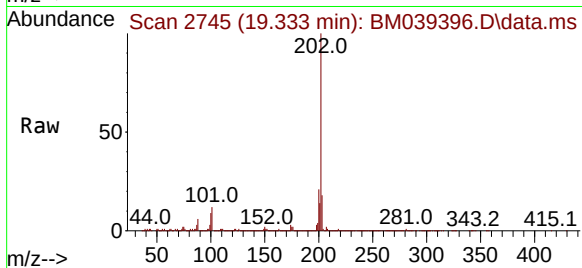
Tgt Ion:202 Resp: 1430736

Ion Ratio Lower Upper

202 100

101 11.9 0.0 32.5

203 18.0 0.0 37.5



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.462 min Scan# 3107

Delta R.T. -0.000 min

Lab File: BM039396.D

Acq: 11 Apr 2023 16:43

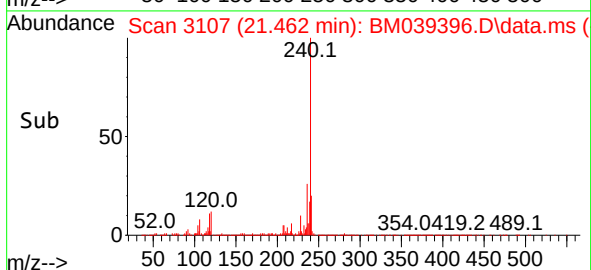
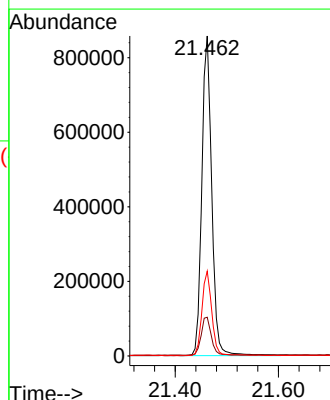
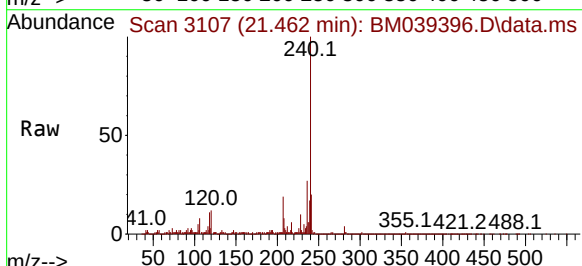
Tgt Ion:240 Resp: 1142250

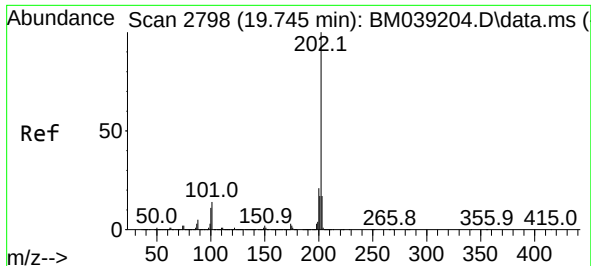
Ion Ratio Lower Upper

240 100

120 12.1 10.2 15.2

236 26.5 20.9 31.3

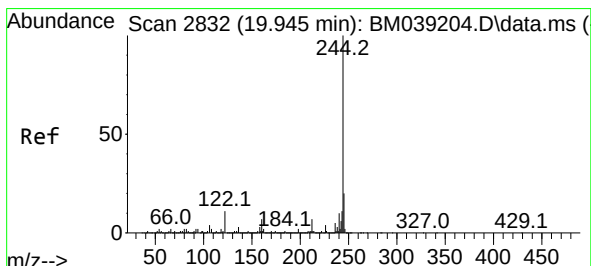
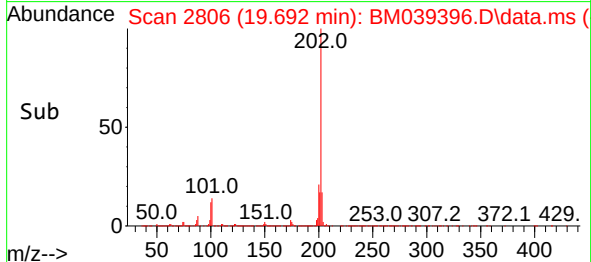
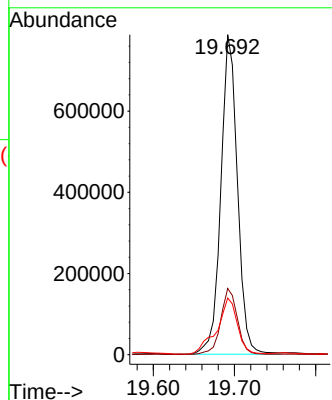
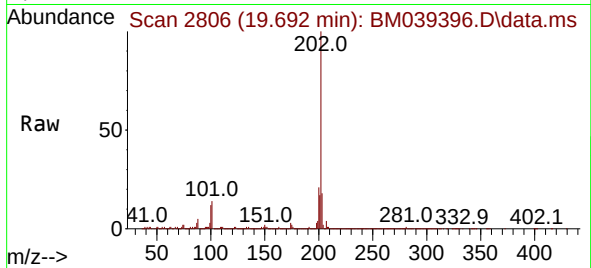




#78  
Pyrene  
Concen: 13.778 ng  
RT: 19.692 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BM039396.D  
Acq: 11 Apr 2023 16:43

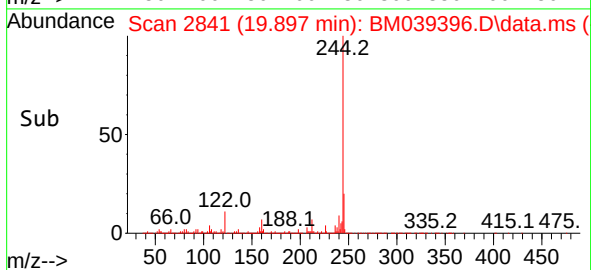
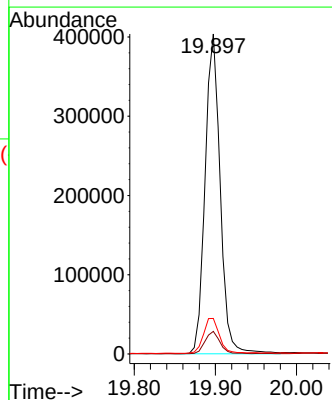
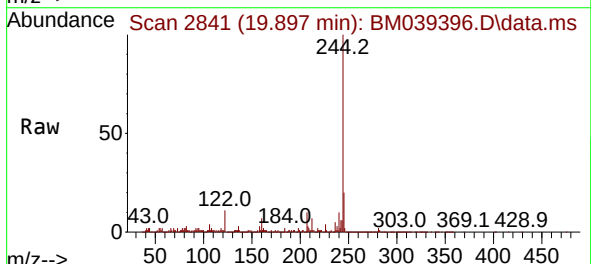
Instrument :  
BNA\_M  
ClientSampleId :  
SP-1CDL

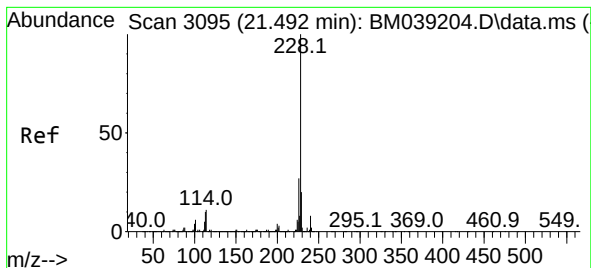
Tgt Ion:202 Resp: 1120381  
Ion Ratio Lower Upper  
202 100  
200 20.7 17.1 25.7  
203 17.7 13.9 20.9



#79  
Terphenyl-d14  
Concen: 8.430 ng  
RT: 19.897 min Scan# 2841  
Delta R.T. -0.000 min  
Lab File: BM039396.D  
Acq: 11 Apr 2023 16:43

Tgt Ion:244 Resp: 521187  
Ion Ratio Lower Upper  
244 100  
212 7.1 5.6 8.4  
122 11.1 9.1 13.7





#81

Benzo(a)anthracene

Concen: 7.225 ng

RT: 21.444 min Scan# 3113

Delta R.T. -0.000 min

Lab File: BM039396.D

Acq: 11 Apr 2023 16:43

Instrument :

BNA\_M

ClientSampleId :

SP-1CDL

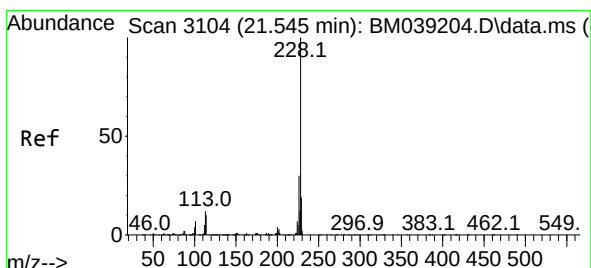
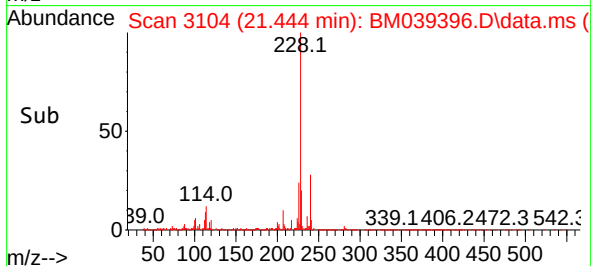
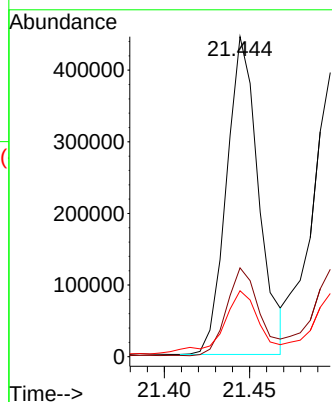
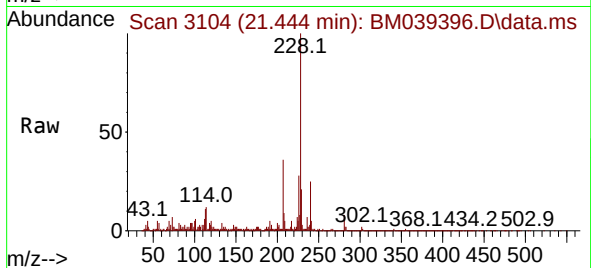
Tgt Ion:228 Resp: 582065

Ion Ratio Lower Upper

228 100

226 27.8 21.9 32.9

229 20.6 15.8 23.6



#83

Chrysene

Concen: 7.529 ng

RT: 21.497 min Scan# 3113

Delta R.T. -0.006 min

Lab File: BM039396.D

Acq: 11 Apr 2023 16:43

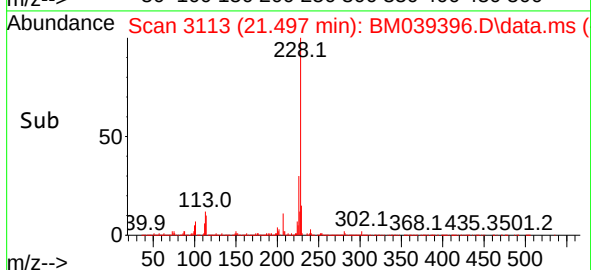
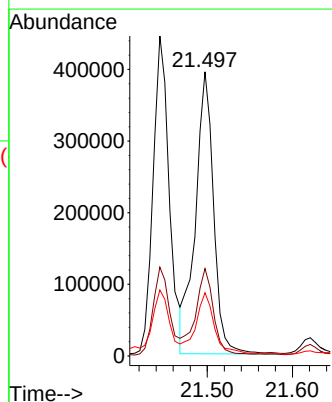
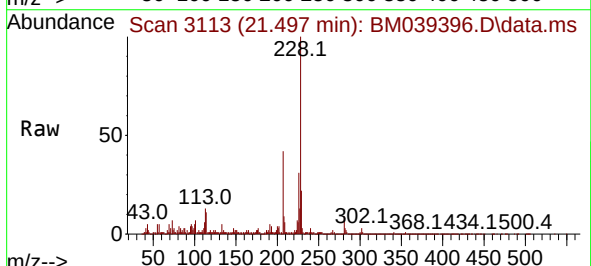
Tgt Ion:228 Resp: 585545

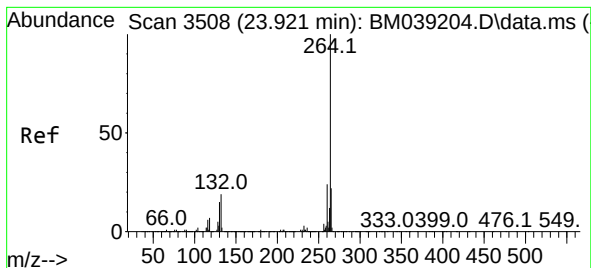
Ion Ratio Lower Upper

228 100

226 30.8 24.1 36.1

229 22.2 15.5 23.3





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.850 min Scan# 3

Delta R.T. -0.000 min

Lab File: BM039396.D

Acq: 11 Apr 2023 16:43

Instrument :

BNA\_M

ClientSampleId :

SP-1CDL

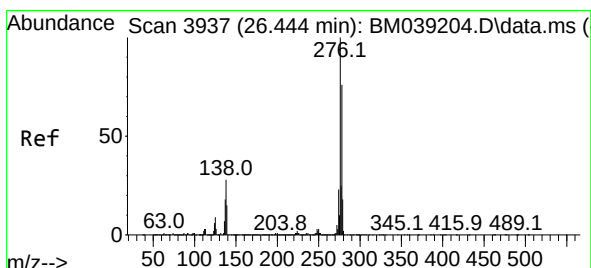
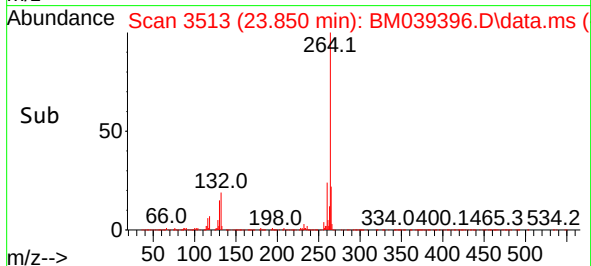
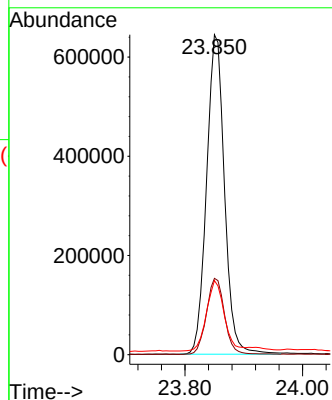
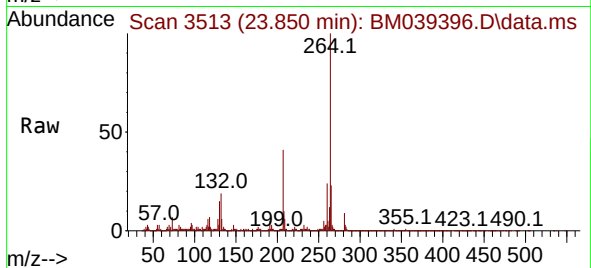
Tgt Ion:264 Resp: 1366798

Ion Ratio Lower Upper

264 100

260 23.8 19.0 28.6

265 23.2 18.1 27.1



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.627 ng

RT: 26.321 min Scan# 3933

Delta R.T. -0.018 min

Lab File: BM039396.D

Acq: 11 Apr 2023 16:43

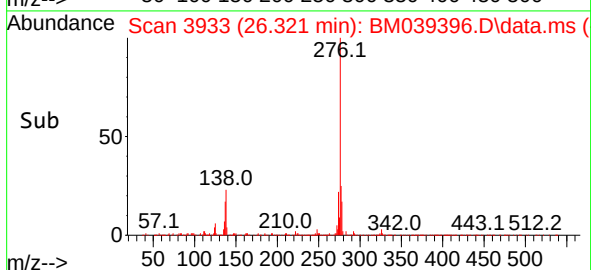
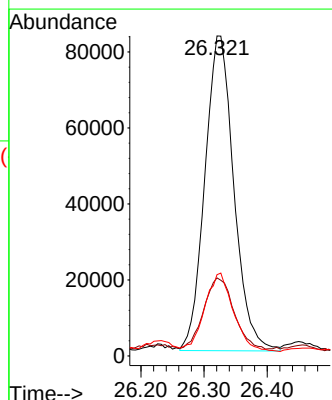
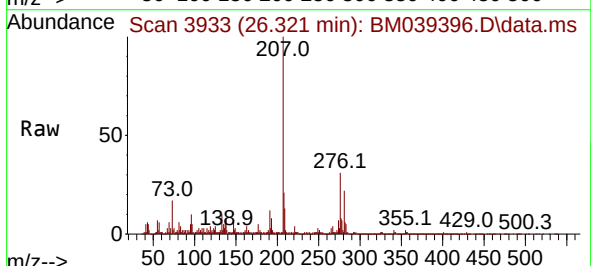
Tgt Ion:276 Resp: 264553

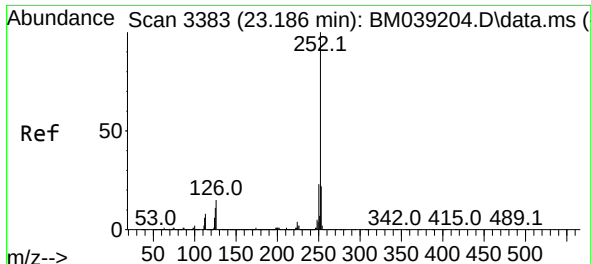
Ion Ratio Lower Upper

276 100

138 23.5 22.2 33.2

277 24.7 20.2 30.2

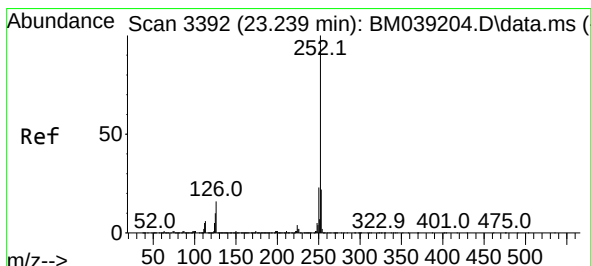
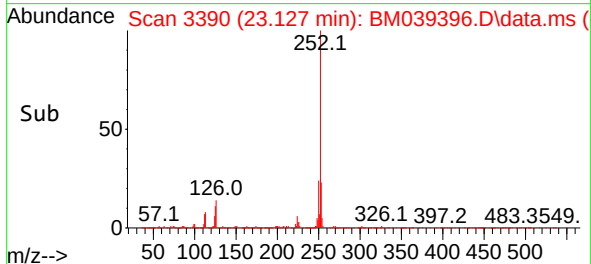
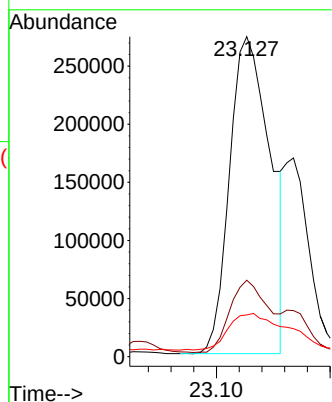
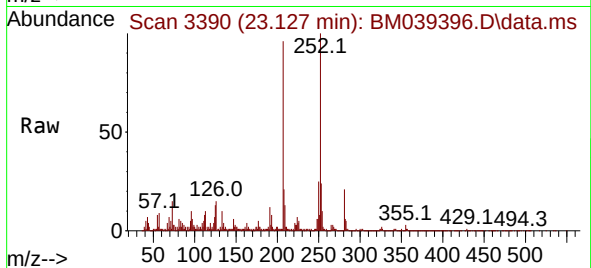




#88  
Benzo(b)fluoranthene  
Concen: 8.106 ng  
RT: 23.127 min Scan# 3390  
Delta R.T. -0.000 min  
Lab File: BM039396.D  
Acq: 11 Apr 2023 16:43

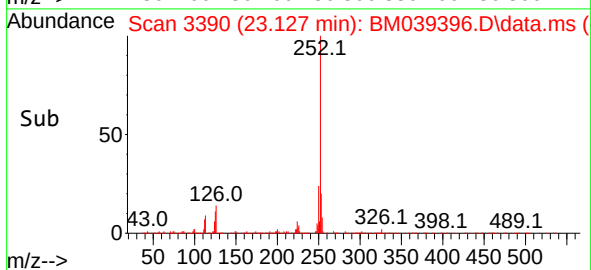
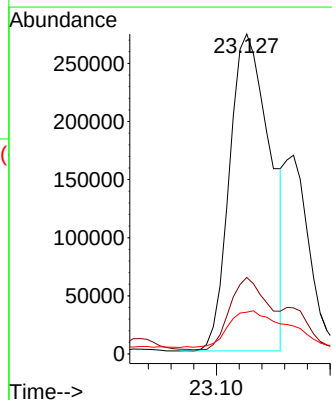
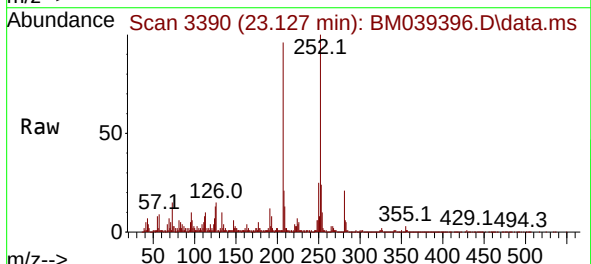
Instrument :  
BNA\_M  
ClientSampleId :  
SP-1CDL

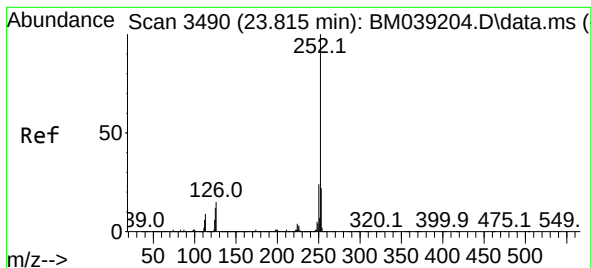
Tgt Ion:252 Resp: 677937  
Ion Ratio Lower Upper  
252 100  
253 23.9 17.6 26.4  
125 13.0 9.0 13.6



#89  
Benzo(k)fluoranthene  
Concen: 7.958 ng  
RT: 23.127 min Scan# 3390  
Delta R.T. -0.047 min  
Lab File: BM039396.D  
Acq: 11 Apr 2023 16:43

Tgt Ion:252 Resp: 677937  
Ion Ratio Lower Upper  
252 100  
253 23.9 17.8 26.8  
125 13.0 8.5 12.7#





#90

Benzo(a)pyrene

Concen: 5.229 ng

RT: 23.744 min Scan# 34

Delta R.T. -0.006 min

Lab File: BM039396.D

Acq: 11 Apr 2023 16:43

Instrument :

BNA\_M

ClientSampleId :

SP-1CDL

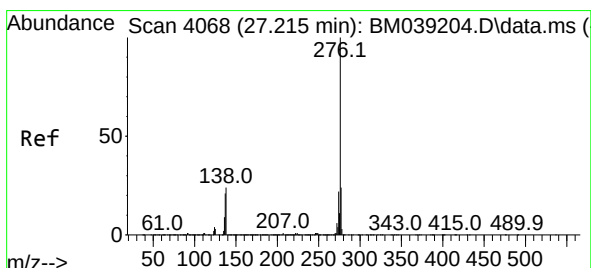
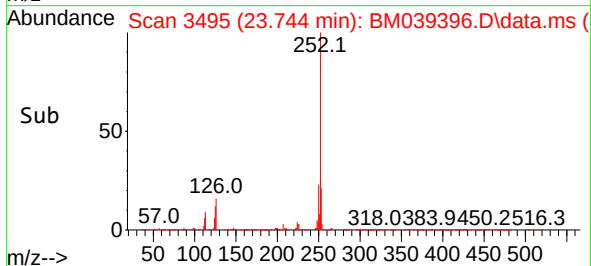
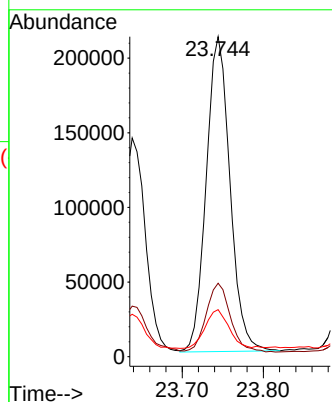
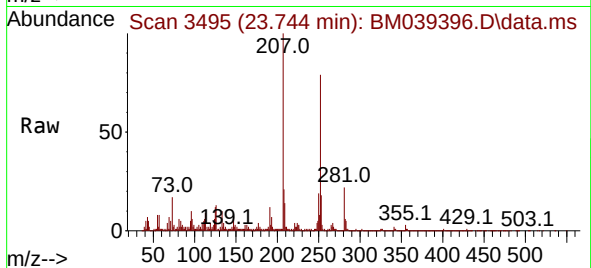
Tgt Ion:252 Resp: 429560

Ion Ratio Lower Upper

252 100

253 22.9 17.6 26.4

125 14.7 9.8 14.6#



#92

Benzo(g,h,i)perylene

Concen: 2.828 ng

RT: 27.085 min Scan# 4063

Delta R.T. -0.018 min

Lab File: BM039396.D

Acq: 11 Apr 2023 16:43

Tgt Ion:276 Resp: 235175

Ion Ratio Lower Upper

276 100

277 25.2 19.1 28.7

138 26.7 19.5 29.3

