

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010524\  
 Data File : BF136978.D  
 Acq On : 05 Jan 2024 16:23  
 Operator : CG\JU  
 Sample : P1003-01RE  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 05 16:44:57 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 21 01:54:25 2023  
 Response via : Initial Calibration

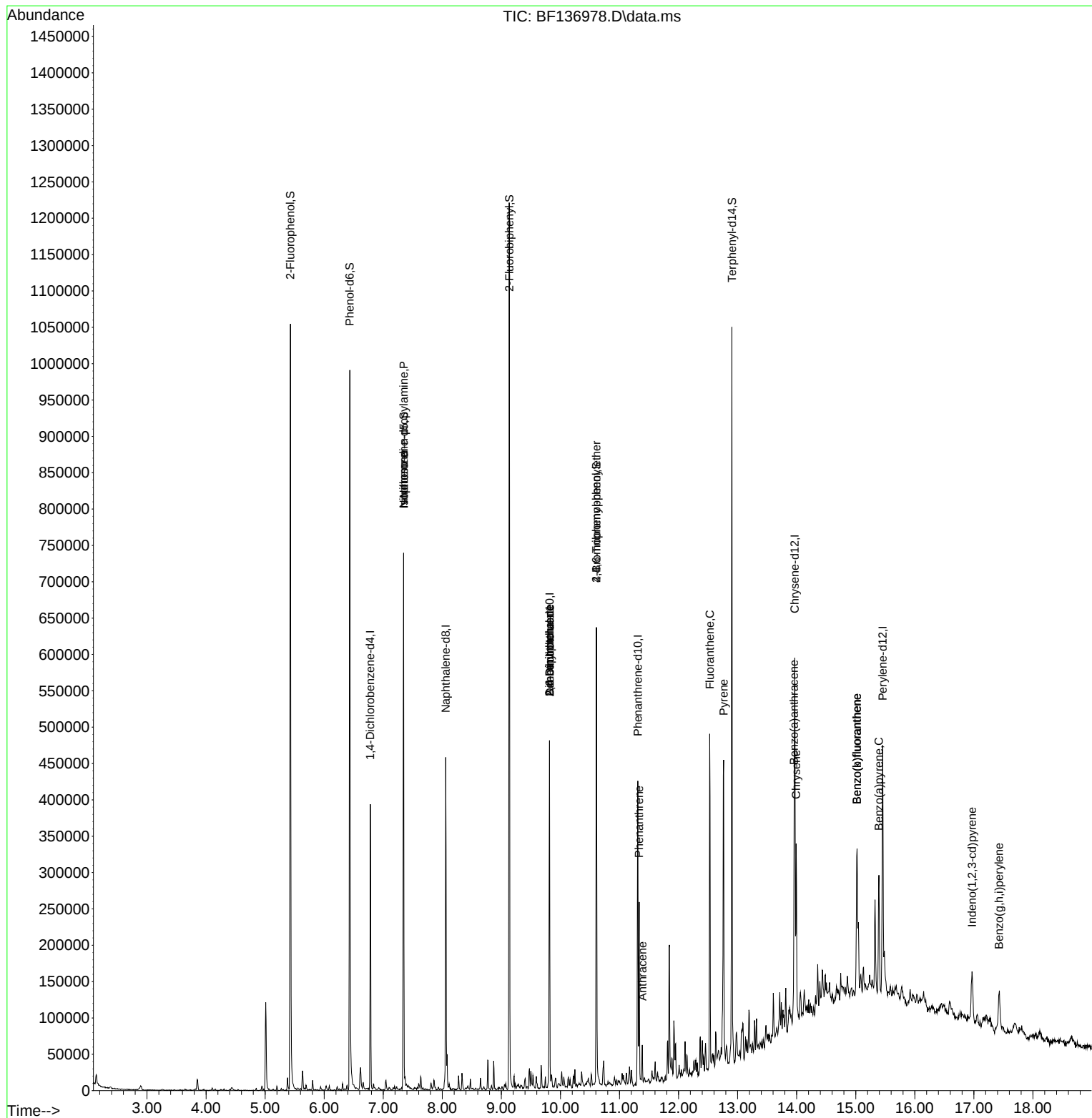
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.781  | 152  | 54600    | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8            | 8.057  | 136  | 190540   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10          | 9.816  | 164  | 87664    | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10          | 11.310 | 188  | 145944   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 13.968 | 240  | 130488   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.457 | 264  | 149982   | 20.000 | ng    | 0.01     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.428  | 112  | 273813   | 78.247 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.434  | 99   | 322411   | 71.105 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.345  | 82   | 208452   | 55.981 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.610 | 330  | 76317    | 73.919 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.133  | 172  | 361180   | 55.414 | ng    | -0.02    |
| 79) Terphenyl-d14             | 12.904 | 244  | 317429   | 33.995 | ng    | -0.01    |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.345  | 70   | 27528    | 10.015 | ng    | # 73     |
| 25) Isophorone                | 7.345  | 82   | 208449   | 30.765 | ng    | # 65     |
| 50) Dimethylphthalate         | 9.816  | 163  | 17109    | 2.672  | ng    | # 1      |
| 51) 2,6-Dinitrotoluene        | 9.816  | 165  | 11579    | 7.968  | ng    | # 31     |
| 57) 2,4-Dinitrotoluene        | 9.816  | 165  | 11579    | 6.138  | ng    | # 22     |
| 67) 4-Bromophenyl-phenylether | 10.610 | 248  | 4557     | 2.812  | ng    | # 1      |
| 71) Phenanthrene              | 11.333 | 178  | 85328    | 11.395 | ng    | 100      |
| 72) Anthracene                | 11.386 | 178  | 19395    | 2.557  | ng    | 99       |
| 75) Fluoranthene              | 12.527 | 202  | 176793   | 22.071 | ng    | 97       |
| 78) Pyrene                    | 12.763 | 202  | 183383   | 14.316 | ng    | 98       |
| 81) Benzo(a)anthracene        | 13.957 | 228  | 97018    | 10.707 | ng    | 95       |
| 83) Chrysene                  | 13.992 | 228  | 89341    | 10.083 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.968 | 276  | 43618    | 4.028  | ng    | 96       |
| 88) Benzo(b)fluoranthene      | 15.021 | 252  | 149218   | 14.896 | ng    | # 95     |
| 89) Benzo(k)fluoranthene      | 15.021 | 252  | 149218   | 15.764 | ng    | 95       |
| 90) Benzo(a)pyrene            | 15.392 | 252  | 79241    | 9.371  | ng    | 96       |
| 92) Benzo(g,h,i)perylene      | 17.427 | 276  | 41586    | 4.570  | ng    | 98       |
| -----                         |        |      |          |        |       |          |

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

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Operator : CG\JU  
Sample : P1003-01RE  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

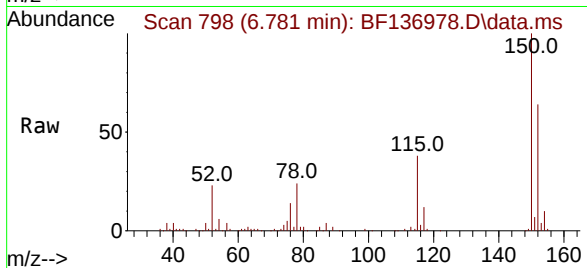
Quant Time: Jan 05 16:44:57 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 21 01:54:25 2023  
Response via : Initial Calibration



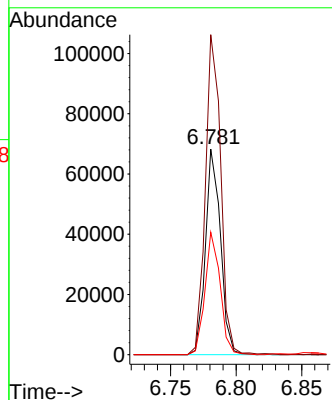
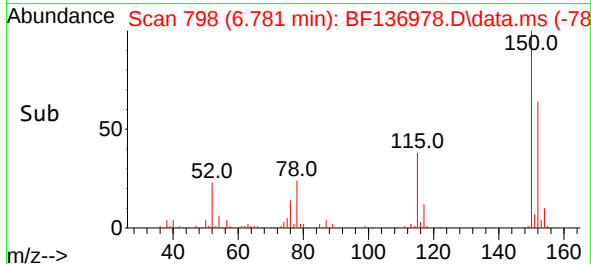


#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.781 min Scan# 79  
Delta R.T. -0.011 min  
Lab File: BF136978.D  
Acq: 05 Jan 2024 16:23

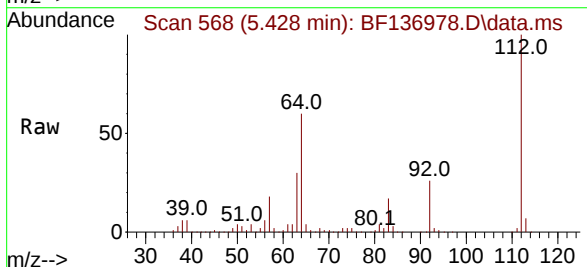
Instrument :  
BNA\_F  
ClientSampleId :



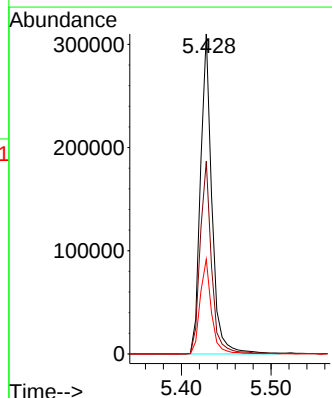
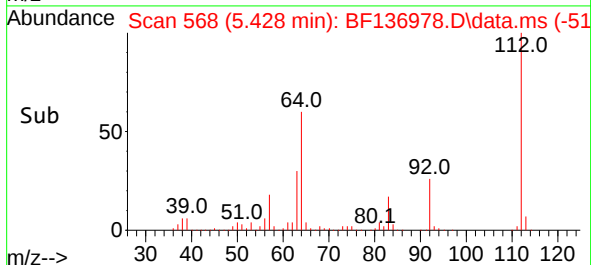
Tgt Ion:152 Resp: 54600  
Ion Ratio Lower Upper  
152 100  
150 155.7 127.0 190.6  
115 59.6 49.0 73.4

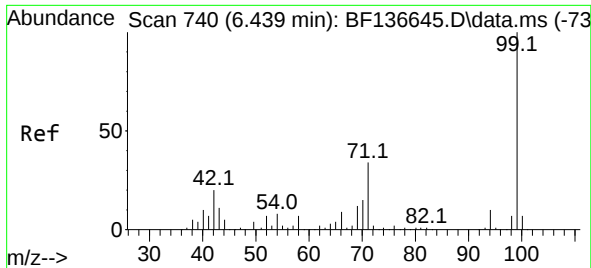


#5  
2-Fluorophenol  
Concen: 78.247 ng  
RT: 5.428 min Scan# 568  
Delta R.T. 0.000 min  
Lab File: BF136978.D  
Acq: 05 Jan 2024 16:23



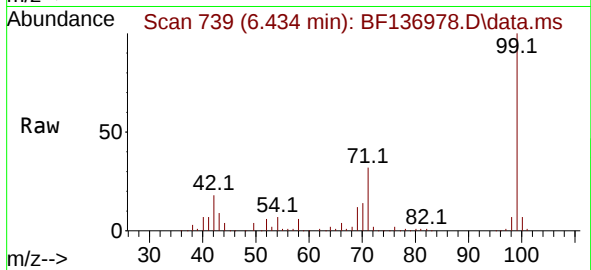
Tgt Ion:112 Resp: 273813  
Ion Ratio Lower Upper  
112 100  
64 60.2 51.1 76.7  
63 29.6 26.1 39.1



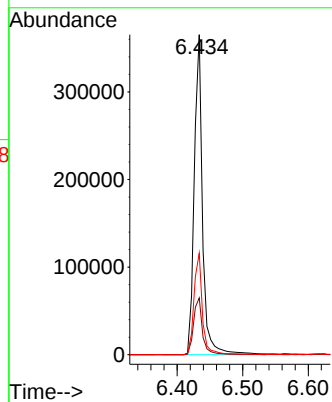
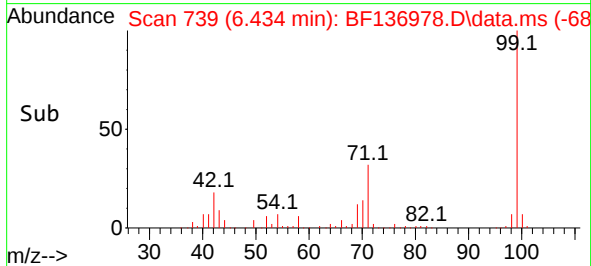


#7  
Phenol-d6  
Concen: 71.105 ng  
RT: 6.434 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF136978.D  
Acq: 05 Jan 2024 16:23

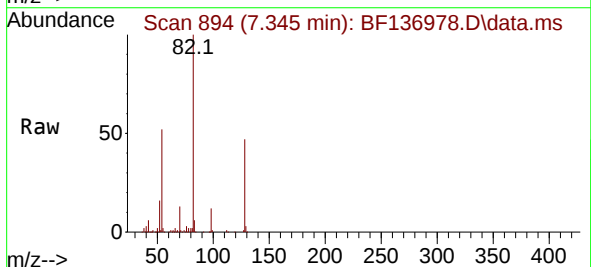
Instrument :  
BNA\_F  
ClientSampleId :



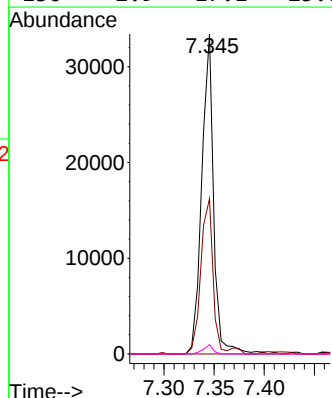
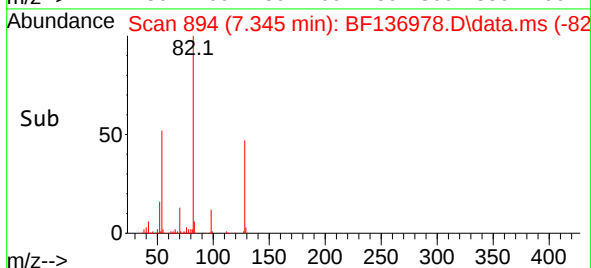
Tgt Ion: 99 Resp: 322411  
Ion Ratio Lower Upper  
99 100  
42 17.8 16.1 24.1  
71 31.7 27.4 41.2



#19  
n-Nitroso-di-n-propylamine  
Concen: 10.015 ng  
RT: 7.345 min Scan# 894  
Delta R.T. 0.135 min  
Lab File: BF136978.D  
Acq: 05 Jan 2024 16:23



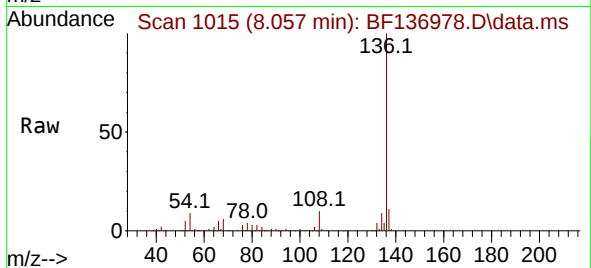
Tgt Ion: 70 Resp: 27528  
Ion Ratio Lower Upper  
70 100  
42 48.5 54.2 81.4#  
101 0.0 7.6 11.4#  
130 2.9 17.1 25.7#



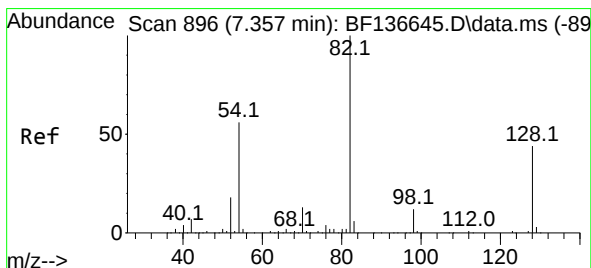
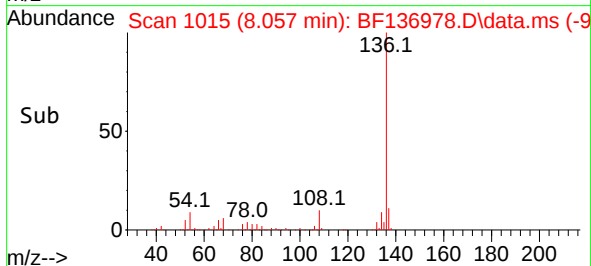
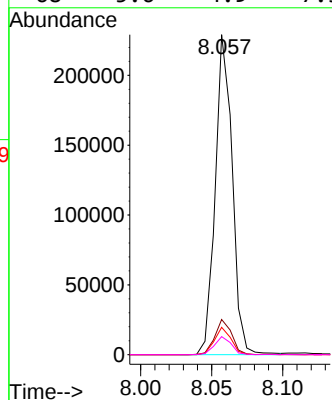


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.057 min Scan# 1015  
Delta R.T. -0.012 min  
Lab File: BF136978.D  
Acq: 05 Jan 2024 16:23

Instrument :  
BNA\_F  
ClientSampleId :

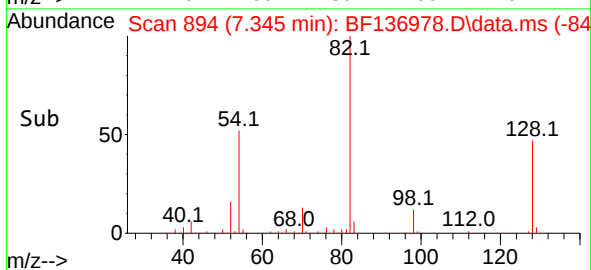
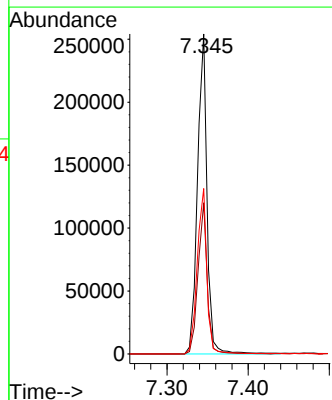
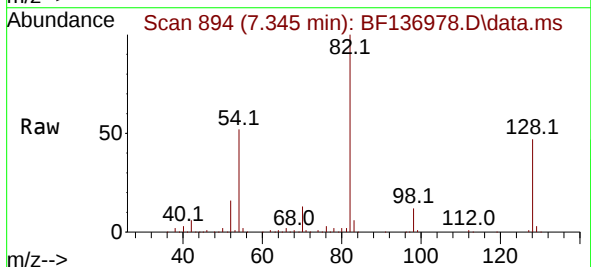


|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 190540 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 9.0   | 13.4   |
| 54       | 8.6   | 7.2   | 10.8   |
| 68       | 5.6   | 4.9   | 7.3    |



#23  
Nitrobenzene-d5  
Concen: 55.981 ng  
RT: 7.345 min Scan# 894  
Delta R.T. -0.012 min  
Lab File: BF136978.D  
Acq: 05 Jan 2024 16:23

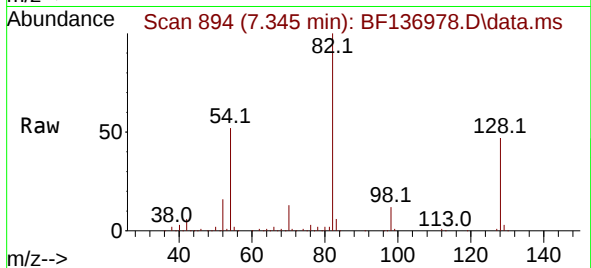
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 208452 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 47.3  | 35.3  | 52.9   |
| 54       | 51.7  | 44.5  | 66.7   |



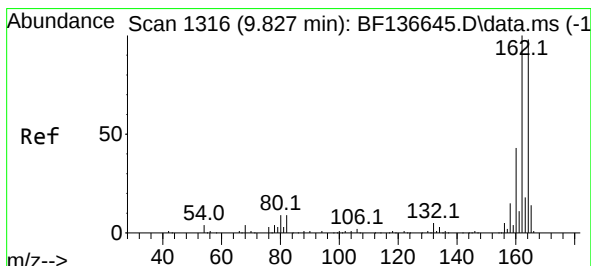
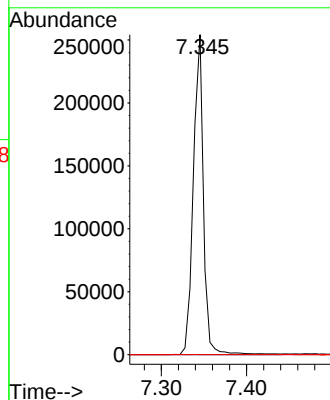
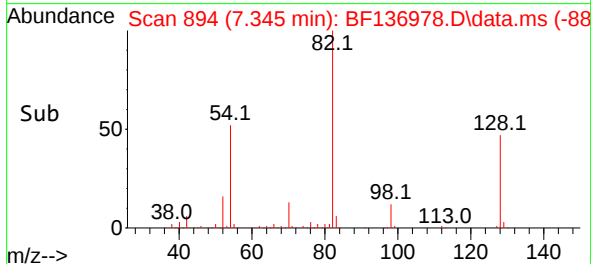


#25  
Isophorone  
Concen: 30.765 ng  
RT: 7.345 min Scan# 894  
Delta R.T. -0.271 min  
Lab File: BF136978.D  
Acq: 05 Jan 2024 16:23

Instrument :  
BNA\_F  
ClientSampleId :

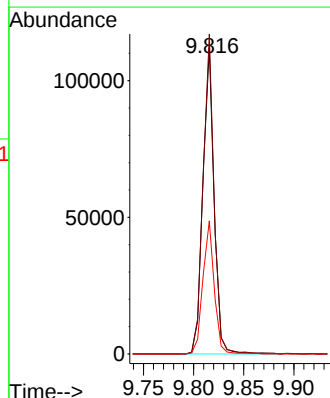
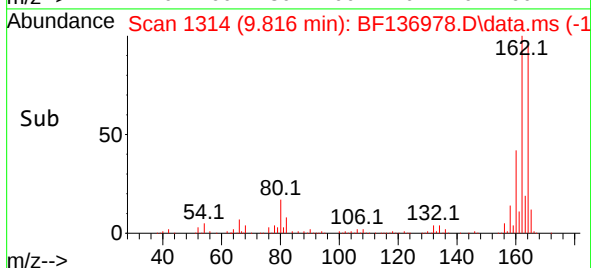
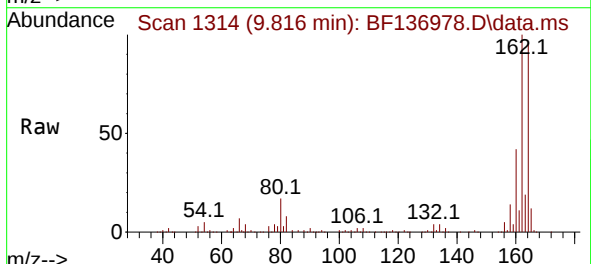


Tgt Ion: 82 Resp: 208449  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.5 8.3#  
138 0.0 14.5 21.7#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.816 min Scan# 1314  
Delta R.T. -0.012 min  
Lab File: BF136978.D  
Acq: 05 Jan 2024 16:23

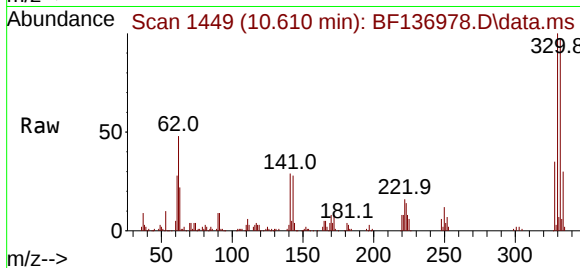
Tgt Ion:164 Resp: 87664  
Ion Ratio Lower Upper  
164 100  
162 104.7 81.6 122.4  
160 43.6 34.9 52.3



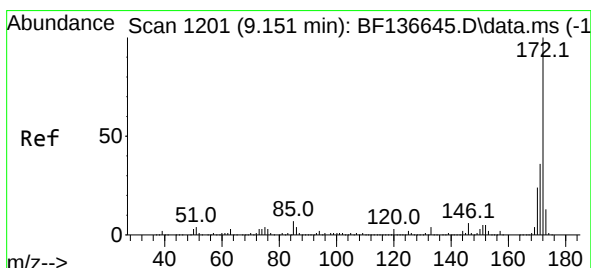
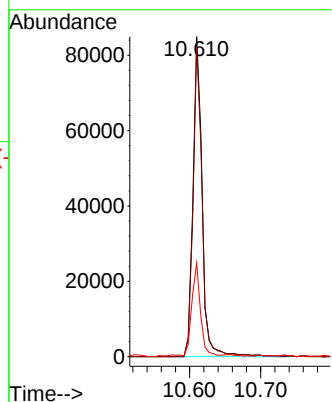
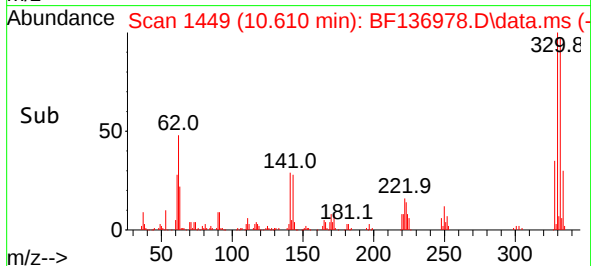


#42  
2,4,6-Tribromophenol  
Concen: 73.919 ng  
RT: 10.610 min Scan# 1451  
Delta R.T. -0.012 min  
Lab File: BF136978.D  
Acq: 05 Jan 2024 16:23

Instrument :  
BNA\_F  
ClientSampleId :

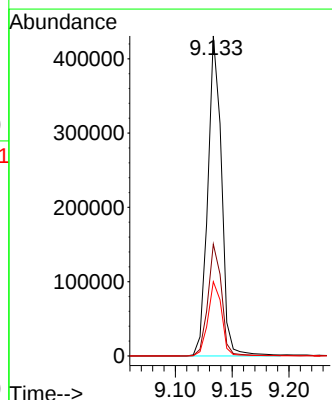
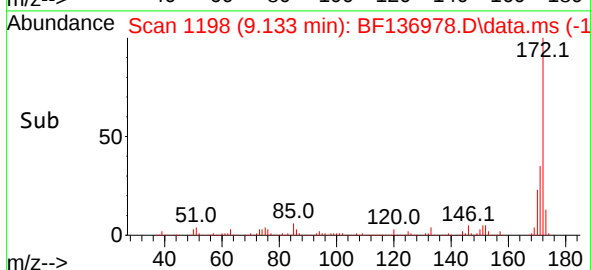
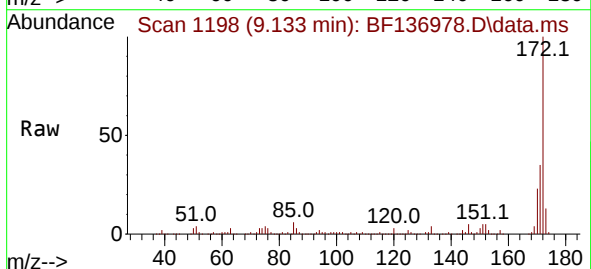


Tgt Ion: 330 Resp: 76317  
Ion Ratio Lower Upper  
330 100  
332 95.3 77.4 116.0  
141 28.9 23.4 35.2



#45  
2-Fluorobiphenyl  
Concen: 55.414 ng  
RT: 9.133 min Scan# 1198  
Delta R.T. -0.018 min  
Lab File: BF136978.D  
Acq: 05 Jan 2024 16:23

Tgt Ion: 172 Resp: 361180  
Ion Ratio Lower Upper  
172 100  
171 35.0 29.0 43.6  
170 23.2 19.0 28.4

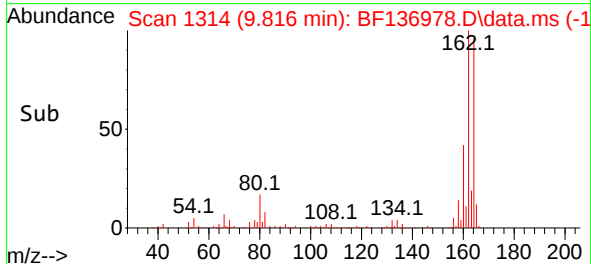
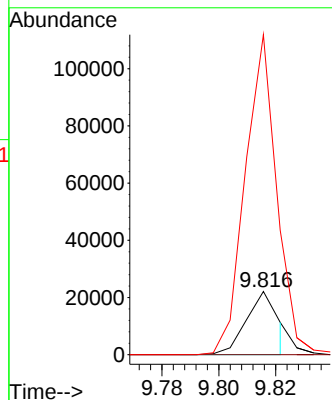
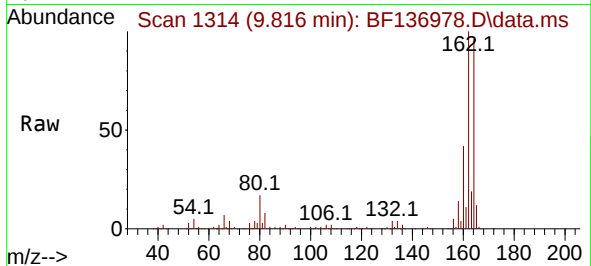




#50  
Dimethylphthalate  
Concen: 2.672 ng  
RT: 9.816 min Scan# 1314  
Delta R.T. 0.259 min  
Lab File: BF136978.D  
Acq: 05 Jan 2024 16:23

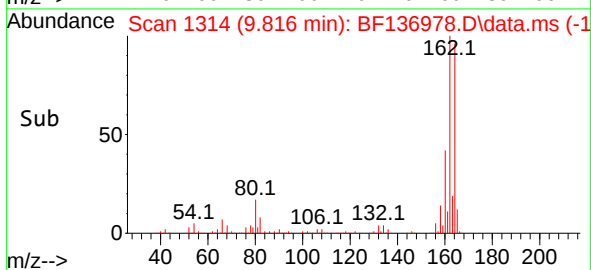
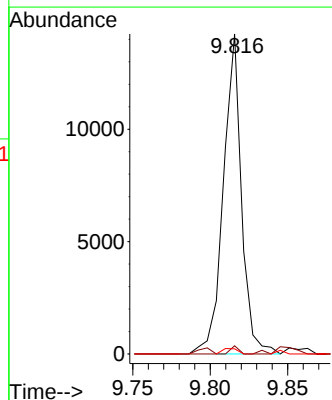
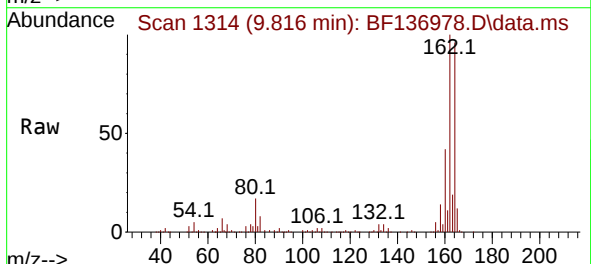
Instrument :  
BNA\_F  
ClientSampleId :

Tgt Ion:163 Resp: 17109  
Ion Ratio Lower Upper  
163 100  
194 0.0 3.3 4.9#  
164 506.3 7.8 11.6#



#51  
2,6-Dinitrotoluene  
Concen: 7.968 ng  
RT: 9.816 min Scan# 1314  
Delta R.T. 0.194 min  
Lab File: BF136978.D  
Acq: 05 Jan 2024 16:23

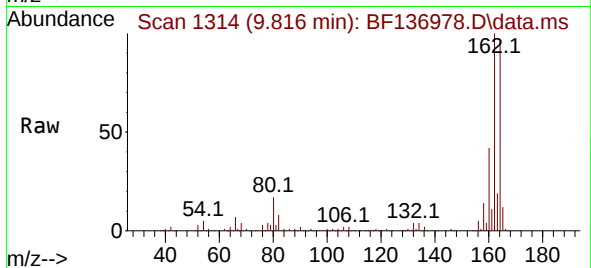
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Ion Ratio Lower Upper  
165 100  
63 2.6 39.8 59.6#  
89 1.6 38.8 58.2#



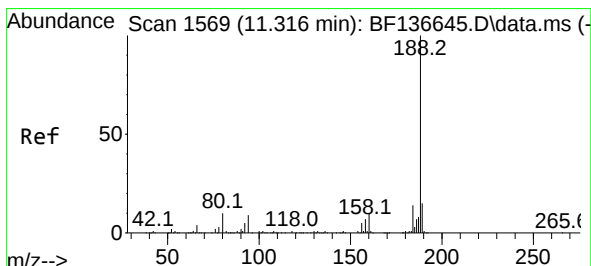
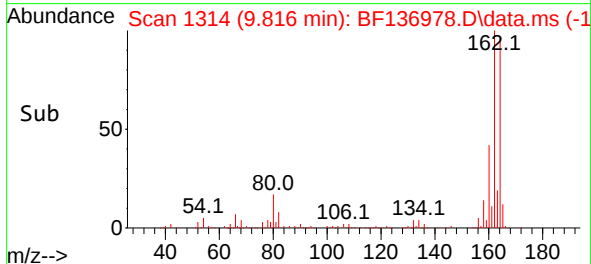
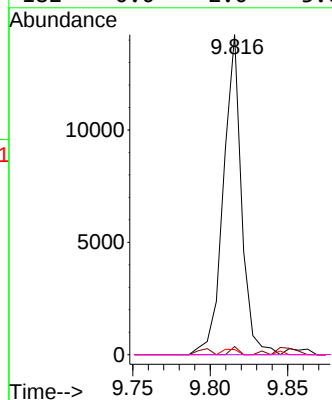


#57  
2,4-Dinitrotoluene  
Concen: 6.138 ng  
RT: 9.816 min Scan# 11579  
Delta R.T. -0.206 min  
Lab File: BF136978.D  
Acq: 05 Jan 2024 16:23

Instrument :  
BNA\_F  
ClientSampleId :

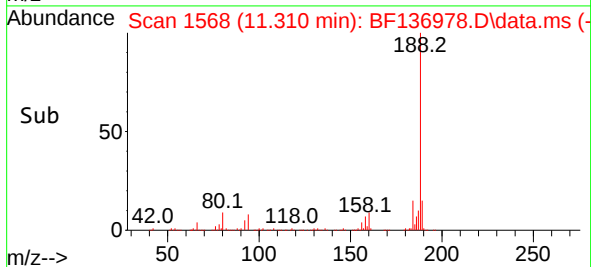
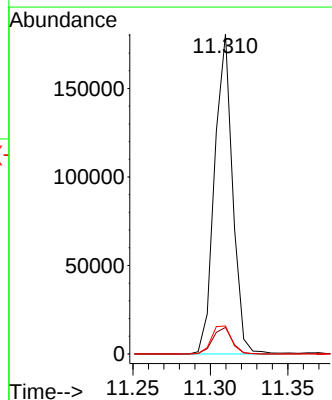
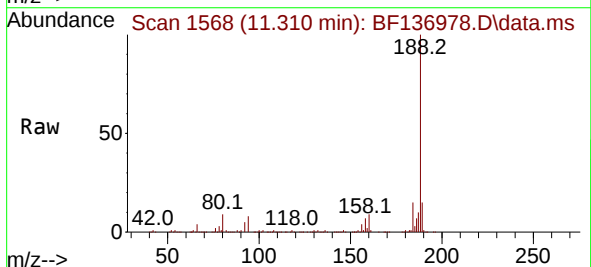


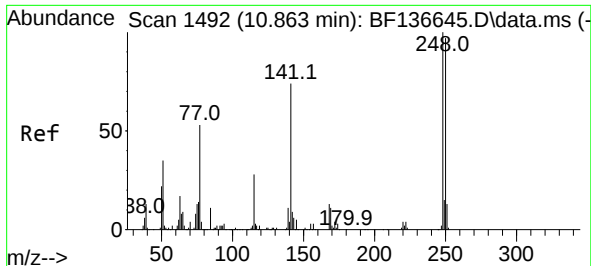
Tgt Ion:165 Resp: 11579  
Ion Ratio Lower Upper  
165 100  
63 2.6 41.0 61.6#  
89 1.6 59.9 89.9#  
182 0.0 2.0 3.0#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.310 min Scan# 1568  
Delta R.T. -0.006 min  
Lab File: BF136978.D  
Acq: 05 Jan 2024 16:23

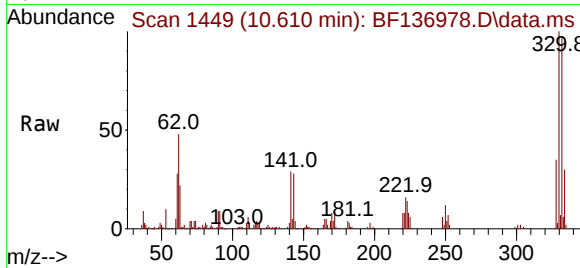
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Ion Ratio Lower Upper  
188 100  
94 8.3 7.5 11.3  
80 8.7 8.1 12.1



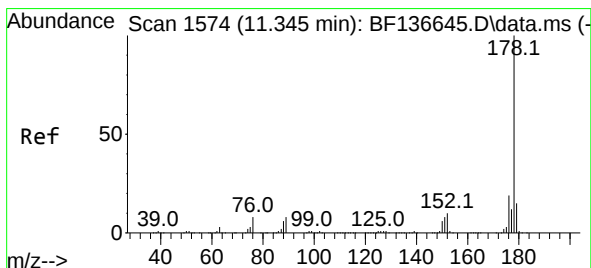
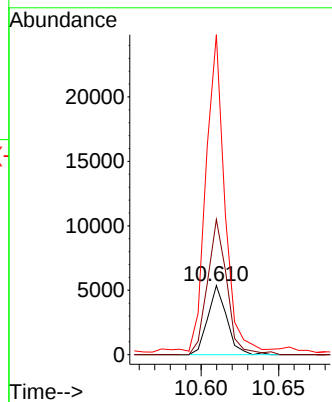
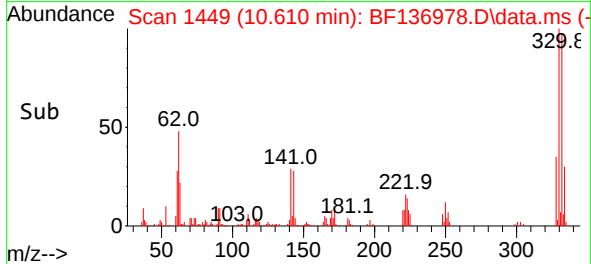


#67  
4-Bromophenyl-phenylether  
Concen: 2.812 ng  
RT: 10.610 min Scan# 1492  
Delta R.T. -0.253 min  
Lab File: BF136978.D  
Acq: 05 Jan 2024 16:23

Instrument :  
BNA\_F  
ClientSampleId :

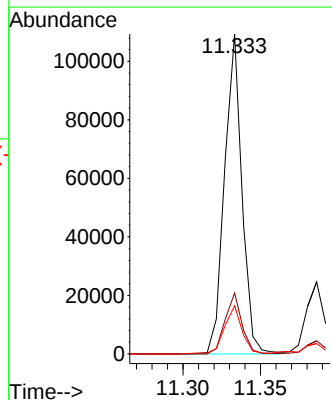
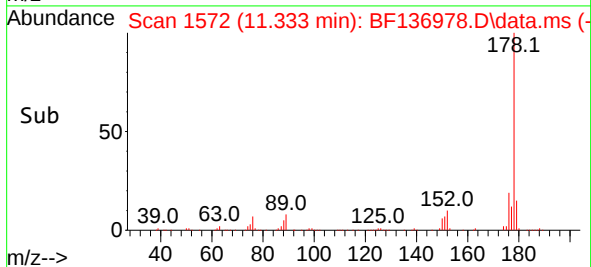
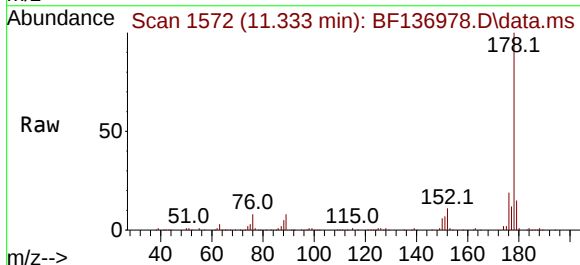


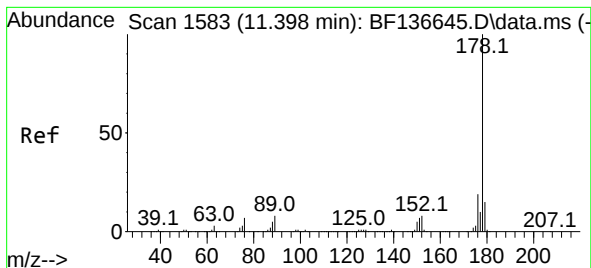
Tgt Ion:248 Resp: 4557  
Ion Ratio Lower Upper  
248 100  
250 195.9 77.8 116.6#  
141 463.5 59.2 88.8#



#71  
Phenanthrene  
Concen: 11.395 ng  
RT: 11.333 min Scan# 1572  
Delta R.T. -0.012 min  
Lab File: BF136978.D  
Acq: 05 Jan 2024 16:23

Tgt Ion:178 Resp: 85328  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.3 22.9  
179 15.1 11.9 17.9





#72

Anthracene

Concen: 2.557 ng

RT: 11.386 min Scan# 1581

Delta R.T. -0.012 min

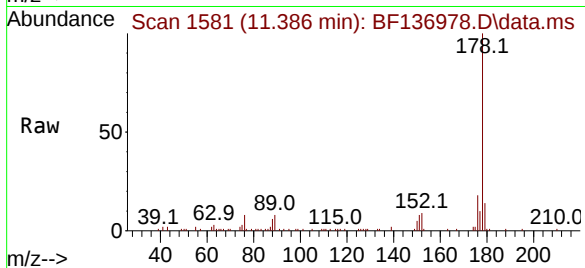
Lab File: BF136978.D

Acq: 05 Jan 2024 16:23

Instrument :

BNA\_F

ClientSampleId :



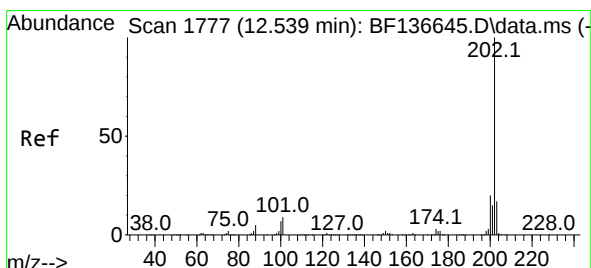
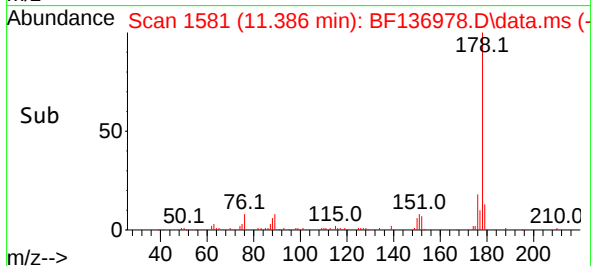
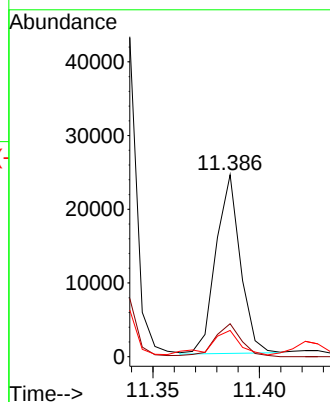
Tgt Ion:178 Resp: 19395

Ion Ratio Lower Upper

178 100

176 18.1 14.9 22.3

179 14.4 11.8 17.6



#75

Fluoranthene

Concen: 22.071 ng

RT: 12.527 min Scan# 1775

Delta R.T. -0.012 min

Lab File: BF136978.D

Acq: 05 Jan 2024 16:23

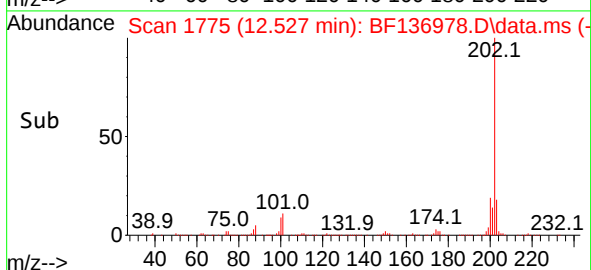
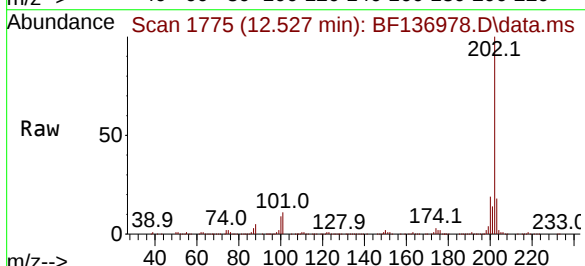
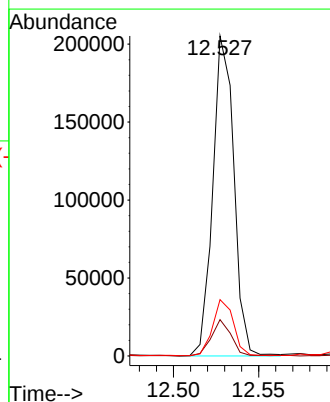
Tgt Ion:202 Resp: 176793

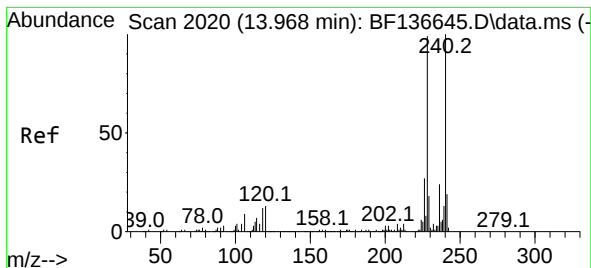
Ion Ratio Lower Upper

202 100

101 11.4 0.0 29.3

203 17.6 0.0 37.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.968 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF136978.D

Acq: 05 Jan 2024 16:23

Instrument :

BNA\_F

ClientSampleId :

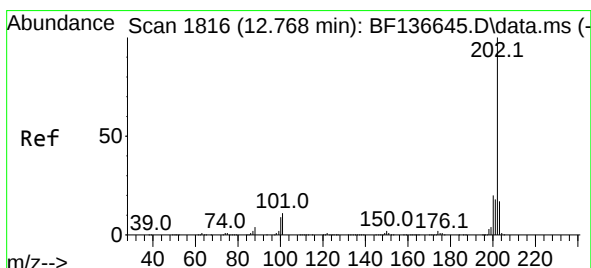
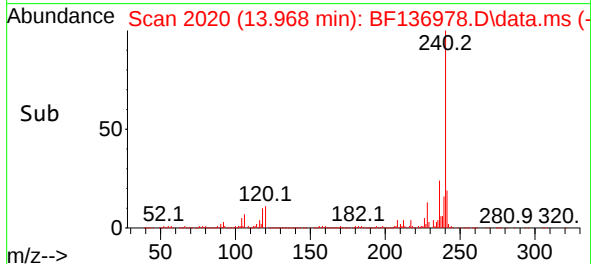
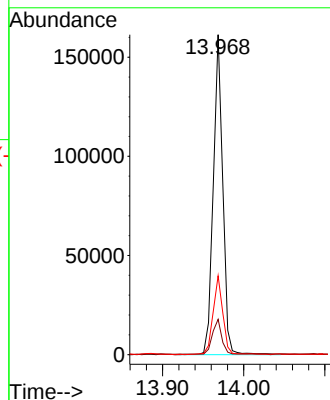
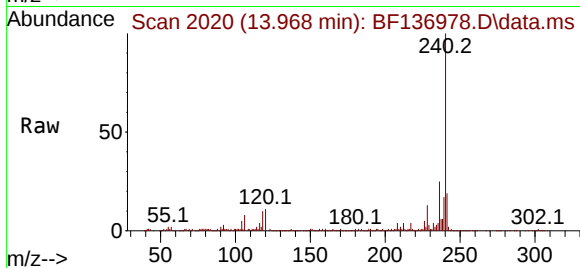
Tgt Ion:240 Resp: 130488

Ion Ratio Lower Upper

240 100

120 11.1 10.3 15.5

236 24.6 19.4 29.2



#78

Pyrene

Concen: 14.316 ng

RT: 12.763 min Scan# 1815

Delta R.T. -0.006 min

Lab File: BF136978.D

Acq: 05 Jan 2024 16:23

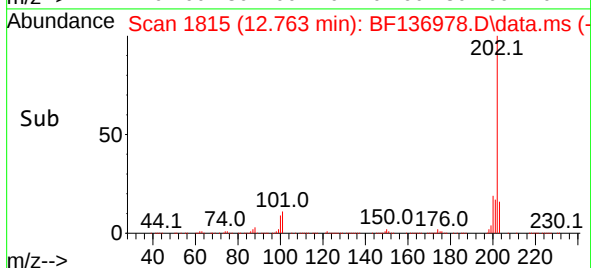
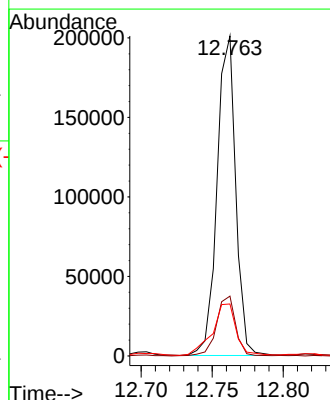
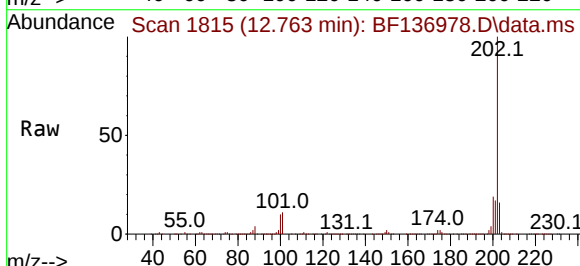
Tgt Ion:202 Resp: 183383

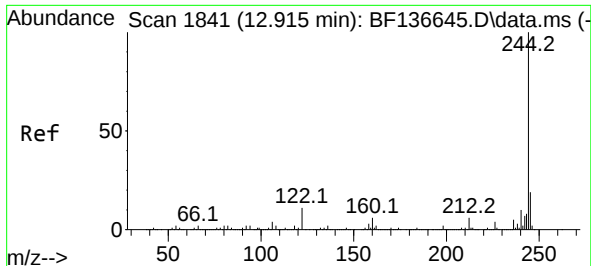
Ion Ratio Lower Upper

202 100

200 18.7 15.9 23.9

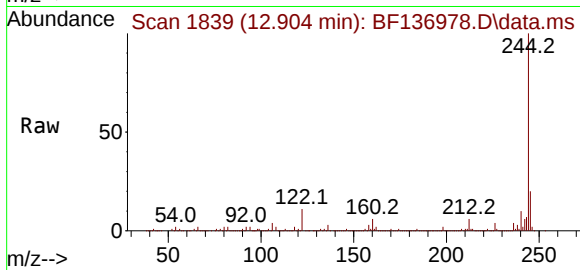
203 16.3 13.8 20.6



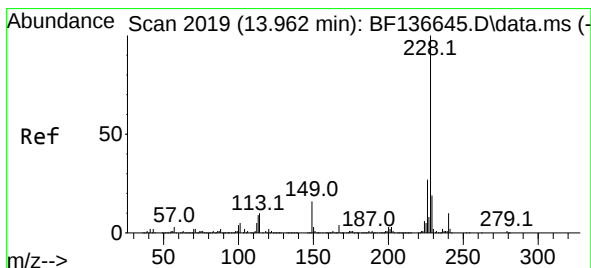
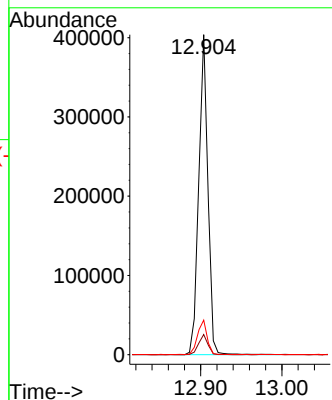
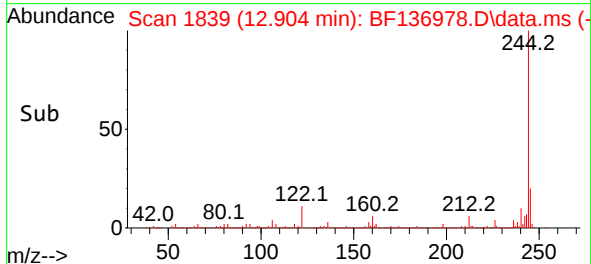


#79  
 Terphenyl-d14  
 Concen: 33.995 ng  
 RT: 12.904 min Scan# 1839  
 Delta R.T. -0.012 min  
 Lab File: BF136978.D  
 Acq: 05 Jan 2024 16:23

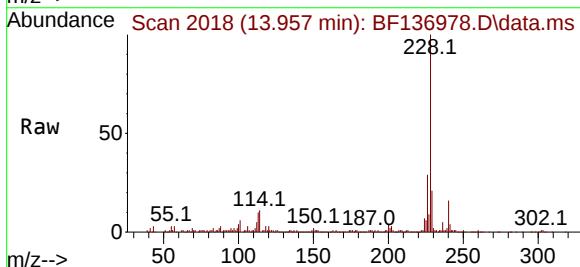
Instrument :  
 BNA\_F  
 ClientSampleId :



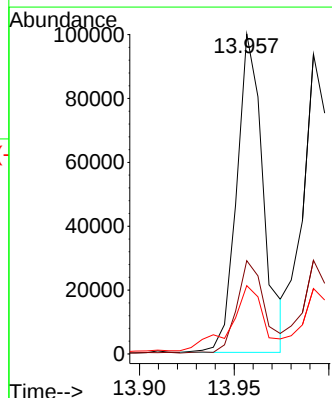
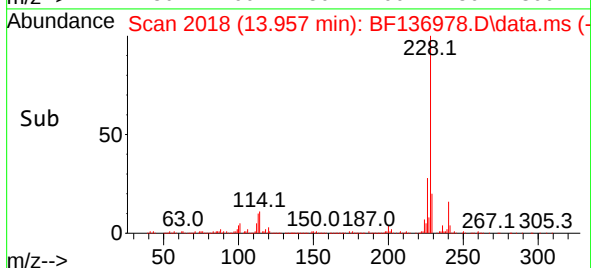
Tgt Ion:244 Resp: 317429  
 Ion Ratio Lower Upper  
 244 100  
 212 6.3 5.0 7.4  
 122 10.8 9.0 13.4

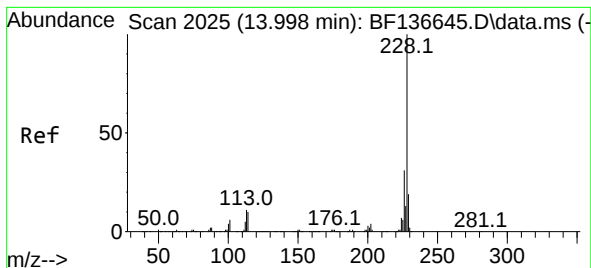


#81  
 Benzo(a)anthracene  
 Concen: 10.707 ng  
 RT: 13.957 min Scan# 2018  
 Delta R.T. -0.006 min  
 Lab File: BF136978.D  
 Acq: 05 Jan 2024 16:23



Tgt Ion:228 Resp: 97018  
 Ion Ratio Lower Upper  
 228 100  
 226 29.1 21.4 32.0  
 229 21.3 14.9 22.3





#83

Chrysene

Concen: 10.083 ng

RT: 13.992 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF136978.D

Acq: 05 Jan 2024 16:23

Instrument :

BNA\_F

ClientSampleId :

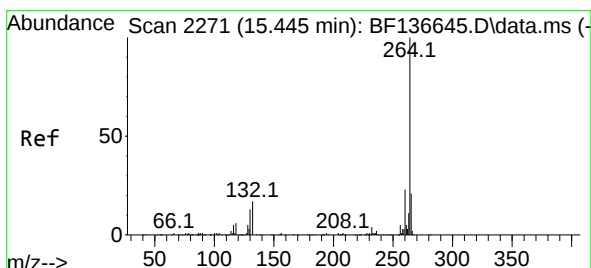
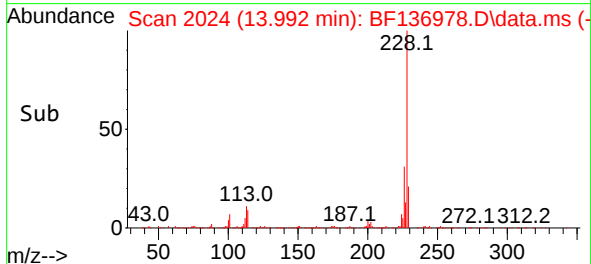
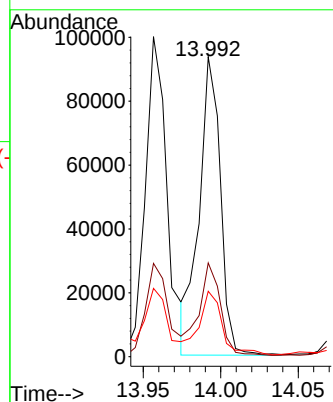
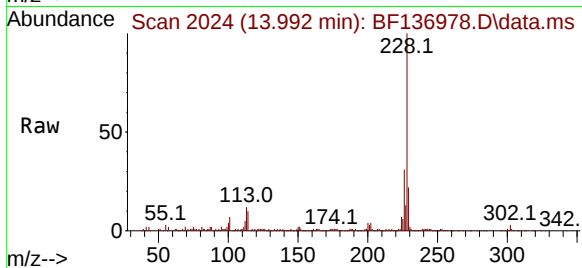
Tgt Ion:228 Resp: 89341

Ion Ratio Lower Upper

228 100

226 31.3 24.7 37.1

229 21.9 15.4 23.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.457 min Scan# 2273

Delta R.T. 0.012 min

Lab File: BF136978.D

Acq: 05 Jan 2024 16:23

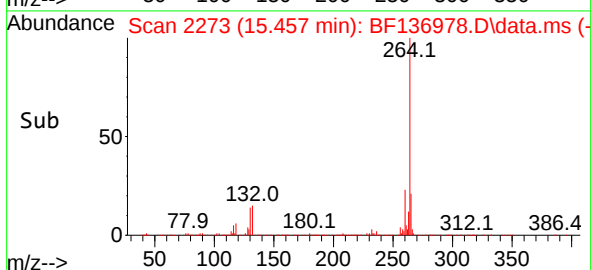
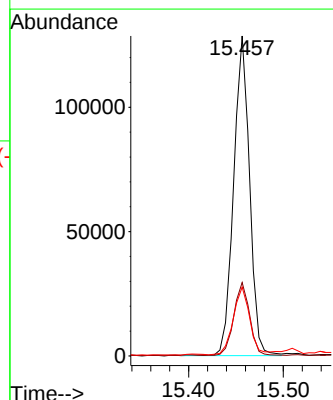
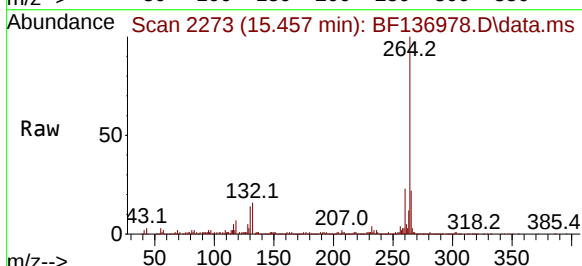
Tgt Ion:264 Resp: 149982

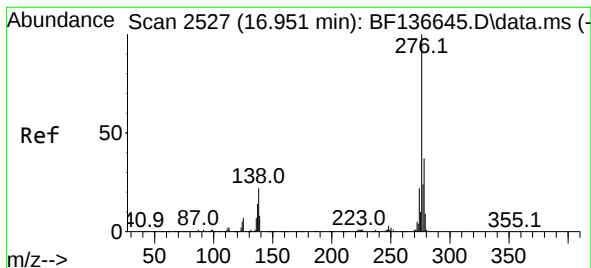
Ion Ratio Lower Upper

264 100

260 23.0 18.3 27.5

265 21.5 17.0 25.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.028 ng

RT: 16.968 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF136978.D

Acq: 05 Jan 2024 16:23

Instrument :

BNA\_F

ClientSampleId :

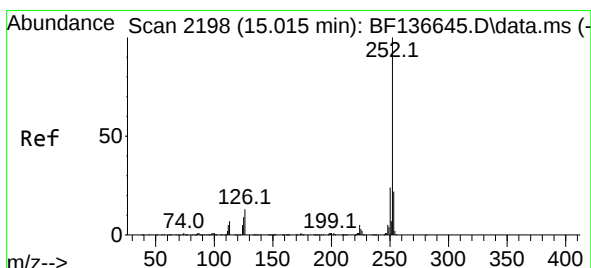
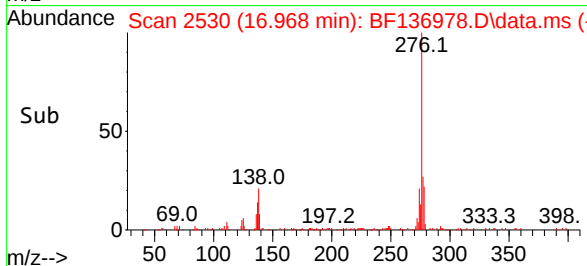
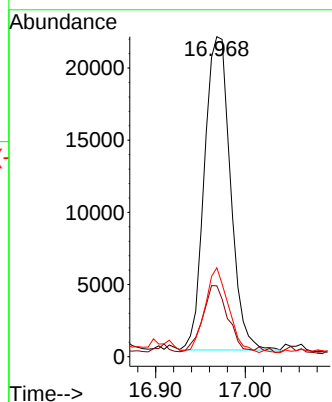
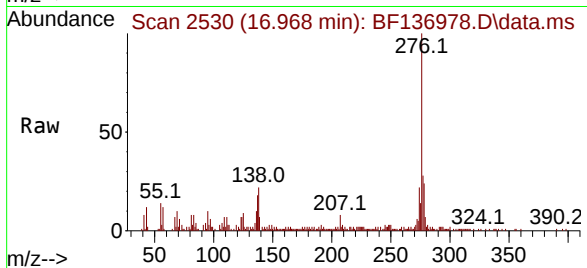
Tgt Ion:276 Resp: 43618

Ion Ratio Lower Upper

276 100

138 20.1 18.7 28.1

277 24.7 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 14.896 ng

RT: 15.021 min Scan# 2199

Delta R.T. 0.006 min

Lab File: BF136978.D

Acq: 05 Jan 2024 16:23

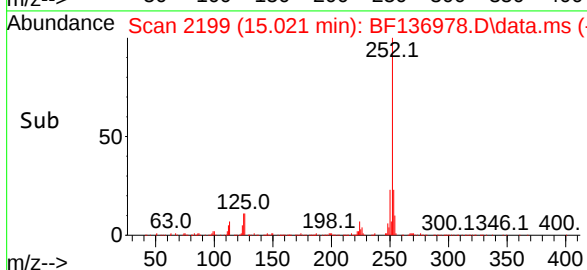
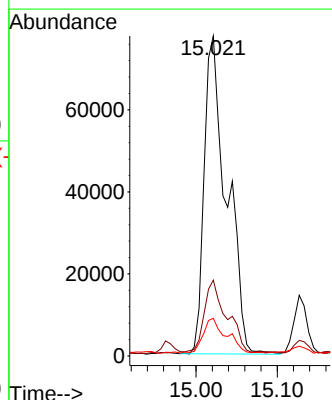
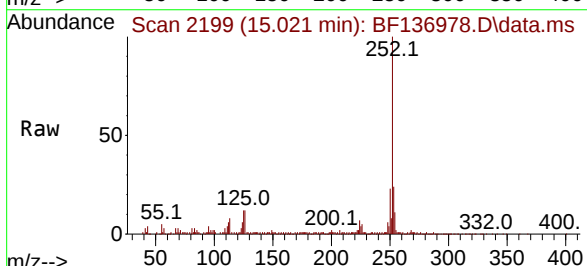
Tgt Ion:252 Resp: 149218

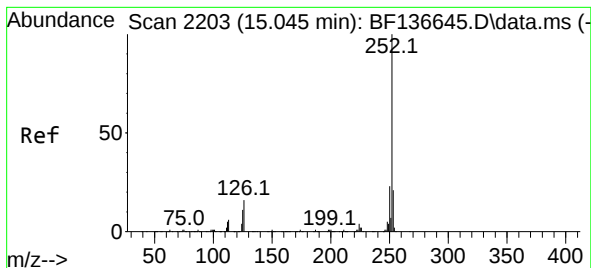
Ion Ratio Lower Upper

252 100

253 23.7 17.4 26.0

125 11.8 7.4 11.2#





#89

Benzo(k)fluoranthene

Concen: 15.764 ng

RT: 15.021 min Scan# 21

Delta R.T. -0.023 min

Lab File: BF136978.D

Acq: 05 Jan 2024 16:23

Instrument :

BNA\_F

ClientSampleId :

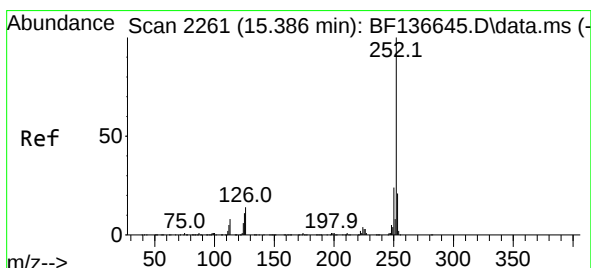
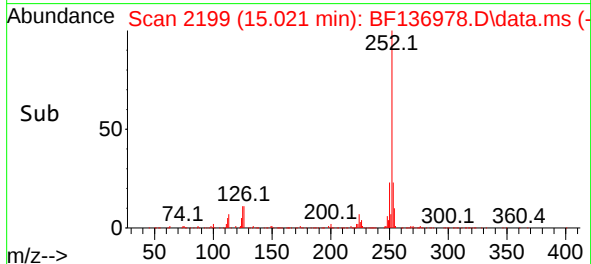
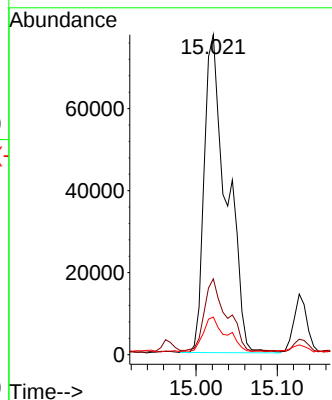
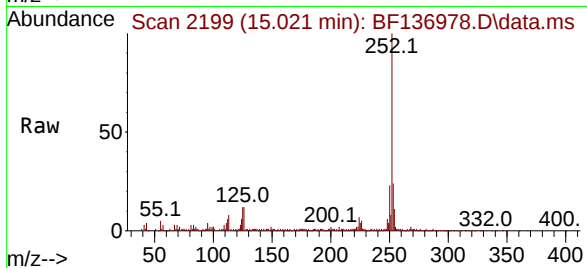
Tgt Ion:252 Resp: 149218

Ion Ratio Lower Upper

252 100

253 23.7 17.0 25.6

125 11.8 8.2 12.4



#90

Benzo(a)pyrene

Concen: 9.371 ng

RT: 15.392 min Scan# 2262

Delta R.T. 0.006 min

Lab File: BF136978.D

Acq: 05 Jan 2024 16:23

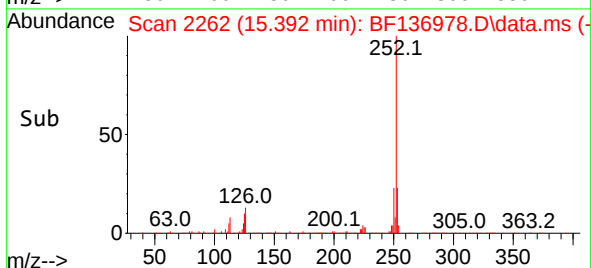
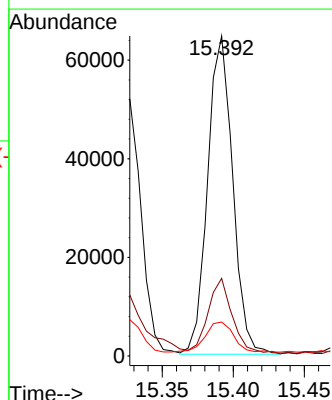
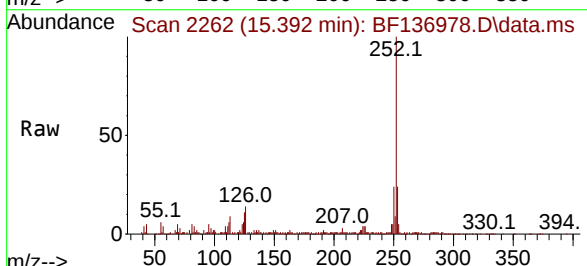
Tgt Ion:252 Resp: 79241

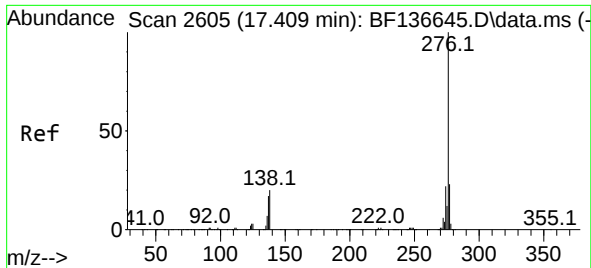
Ion Ratio Lower Upper

252 100

253 24.2 17.0 25.6

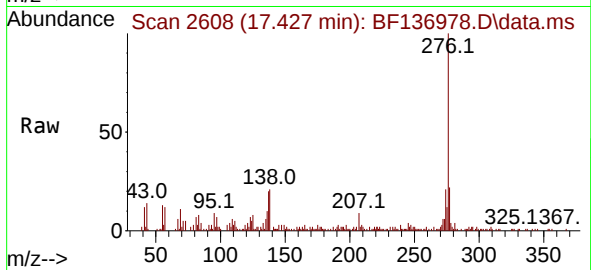
125 10.6 8.8 13.2





#92  
 Benzo(g,h,i)perylene  
 Concen: 4.570 ng  
 RT: 17.427 min Scan# 20  
 Delta R.T. 0.018 min  
 Lab File: BF136978.D  
 Acq: 05 Jan 2024 16:23

Instrument :  
 BNA\_F  
 ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 41586 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 22.5  | 18.3  | 27.5  |
| 138       | 20.8  | 15.6  | 23.4  |

