

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF071723\  
 Data File : BF134331.D  
 Acq On : 17 Jul 2023 23:43  
 Operator : CG\JU  
 Sample : 03621-01 2X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-071323

Quant Time: Jul 18 01:19:16 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF062623.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 14 22:51:27 2023  
 Response via : Initial Calibration

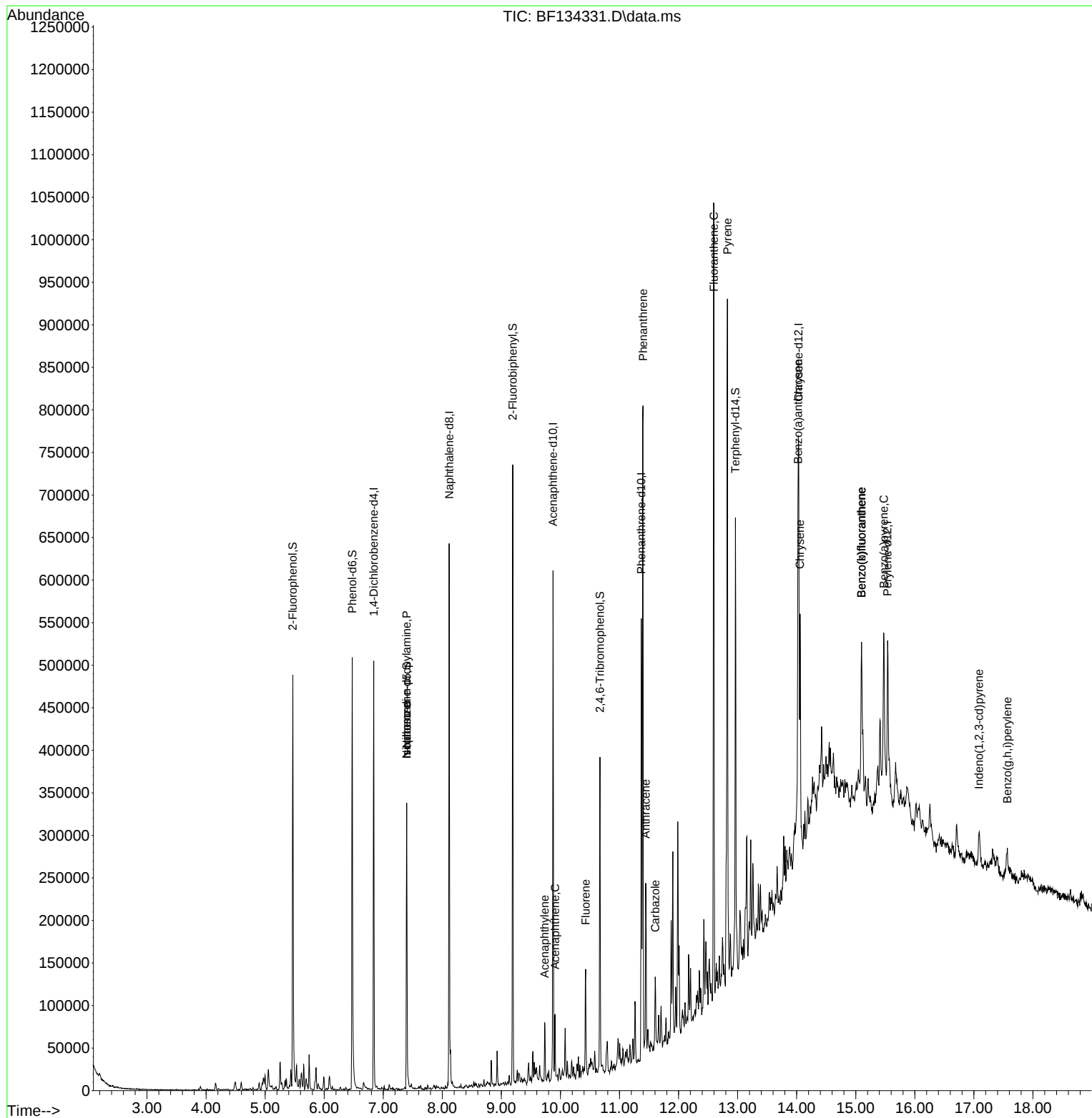
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.839  | 152  | 67997    | 20.000    | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.116  | 136  | 239677   | 20.000    | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.874  | 164  | 103373   | 20.000    | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.368 | 188  | 190970   | 20.000    | ng    | 0.00     |
| 76) Chrysene-d12              | 14.033 | 240  | 104550   | 20.000    | ng    | 0.00     |
| 86) Perylene-d12              | 15.539 | 264  | 89955    | 20.000    | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.469  | 112  | 128308   | 31.565    | ng    | 0.00     |
| 7) Phenol-d6                  | 6.475  | 99   | 148800   | 29.766    | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.398  | 82   | 96218    | 21.640    | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.669 | 330  | 39597    | 30.551    | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.192  | 172  | 185879   | 26.143    | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.962 | 244  | 174909   | 26.925    | ng    | -0.01    |
|                               |        |      |          |           |       |          |
| Target Compounds              |        |      |          |           |       | Qvalue   |
| 9) Benzaldehyde               | 6.363  | 77   | 55       | Below Cal | #     | 36       |
| 19) n-Nitroso-di-n-propyla... | 7.398  | 70   | 13147    | 4.147     | ng    | # 75     |
| 25) Isophorone                | 7.398  | 82   | 96217    | 11.907    | ng    | # 64     |
| 49) Acenaphthylene            | 9.733  | 152  | 25187    | 2.430     | ng    | # 91     |
| 52) Acenaphthene              | 9.910  | 154  | 14743    | 2.452     | ng    | 99       |
| 58) Fluorene                  | 10.427 | 166  | 34971    | 4.783     | ng    | 98       |
| 71) Phenanthrene              | 11.398 | 178  | 291757   | 30.348    | ng    | 99       |
| 72) Anthracene                | 11.445 | 178  | 71247    | 7.125     | ng    | 98       |
| 73) Carbazole                 | 11.604 | 167  | 30691    | 3.353     | ng    | 94       |
| 75) Fluoranthene              | 12.598 | 202  | 398131   | 38.306    | ng    | 97       |
| 78) Pyrene                    | 12.827 | 202  | 340931   | 35.040    | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.021 | 228  | 121395   | 16.742    | ng    | 94       |
| 83) Chrysene                  | 14.057 | 228  | 104830   | 14.927    | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.086 | 276  | 37315    | 5.978     | ng    | # 89     |
| 88) Benzo(b)fluoranthene      | 15.098 | 252  | 132477   | 25.046    | ng    | 97       |
| 89) Benzo(k)fluoranthene      | 15.098 | 252  | 132477   | 24.599    | ng    | 97       |
| 90) Benzo(a)pyrene            | 15.474 | 252  | 71740    | 14.026    | ng    | 95       |
| 92) Benzo(g,h,i)perylene      | 17.568 | 276  | 40290    | 7.663     | ng    | 92       |
| -----                         |        |      |          |           |       |          |

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

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Quant Time: Jul 18 01:19:16 2023  
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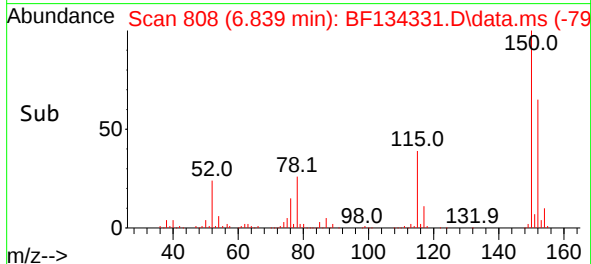
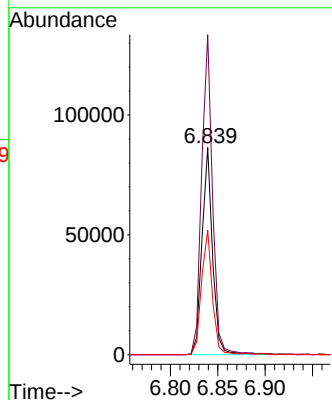
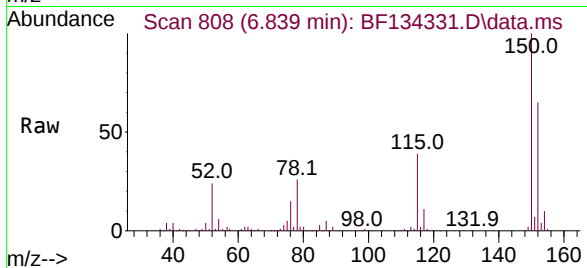




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.839 min Scan# 80  
Delta R.T. -0.006 min  
Lab File: BF134331.D  
Acq: 17 Jul 2023 23:43

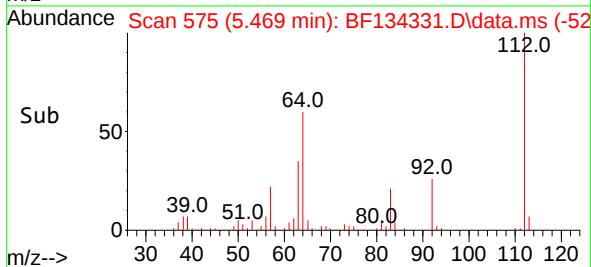
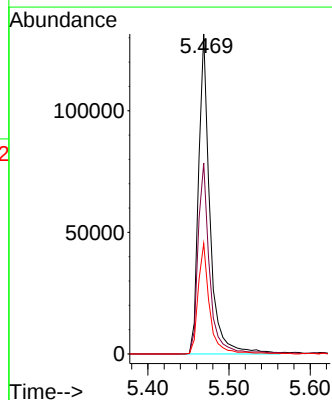
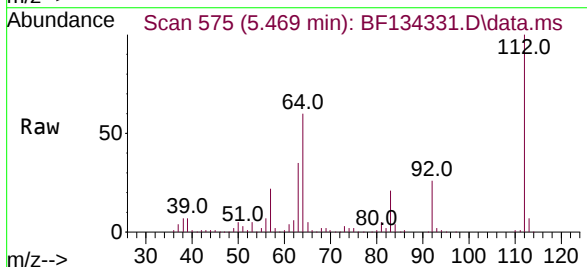
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-071323

Tgt Ion:152 Resp: 67997  
Ion Ratio Lower Upper  
152 100  
150 154.4 124.5 186.7  
115 60.1 50.2 75.2



#5  
2-Fluorophenol  
Concen: 31.565 ng  
RT: 5.469 min Scan# 575  
Delta R.T. -0.000 min  
Lab File: BF134331.D  
Acq: 17 Jul 2023 23:43

Tgt Ion:112 Resp: 128308  
Ion Ratio Lower Upper  
112 100  
64 59.6 52.1 78.1  
63 34.6 28.6 42.8

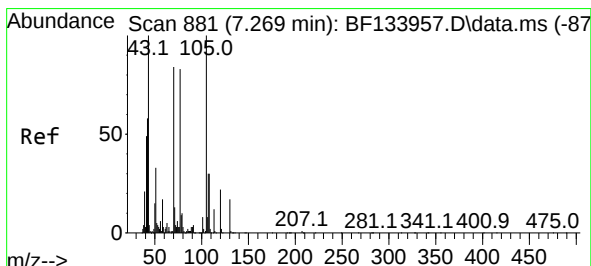
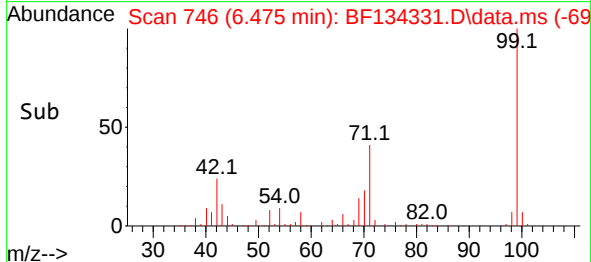
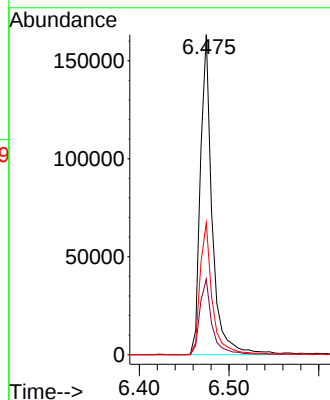
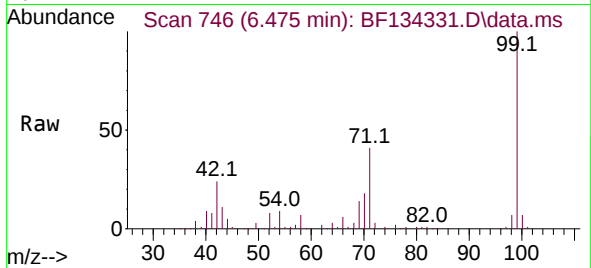




#7  
Phenol-d6  
Concen: 29.766 ng  
RT: 6.475 min Scan# 74  
Delta R.T. -0.012 min  
Lab File: BF134331.D  
Acq: 17 Jul 2023 23:43

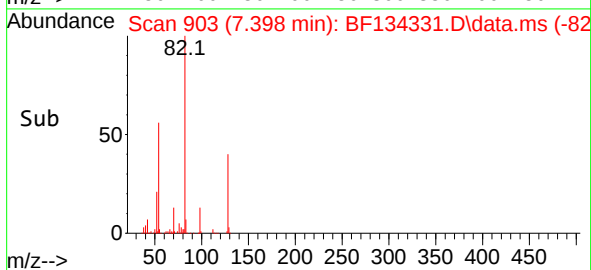
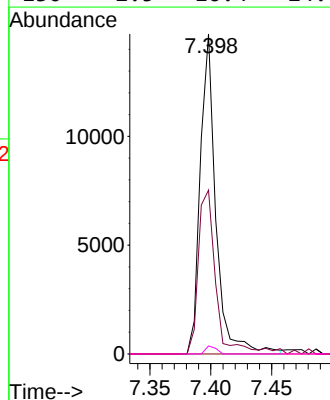
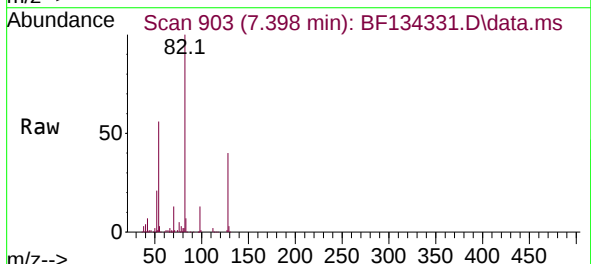
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-071323

Tgt Ion: 99 Resp: 148800  
Ion Ratio Lower Upper  
99 100  
42 23.6 19.8 29.6  
71 41.2 31.9 47.9



#19  
n-Nitroso-di-n-propylamine  
Concen: 4.147 ng  
RT: 7.398 min Scan# 903  
Delta R.T. 0.141 min  
Lab File: BF134331.D  
Acq: 17 Jul 2023 23:43

Tgt Ion: 70 Resp: 13147  
Ion Ratio Lower Upper  
70 100  
42 51.2 54.7 82.1#  
101 0.0 7.7 11.5#  
130 2.5 16.4 24.6#



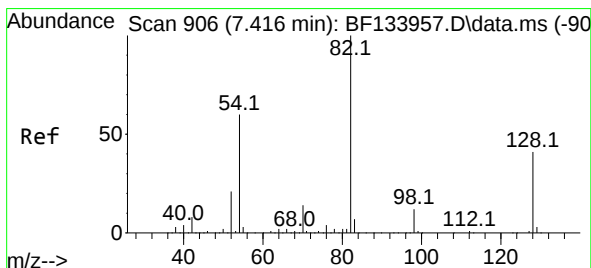
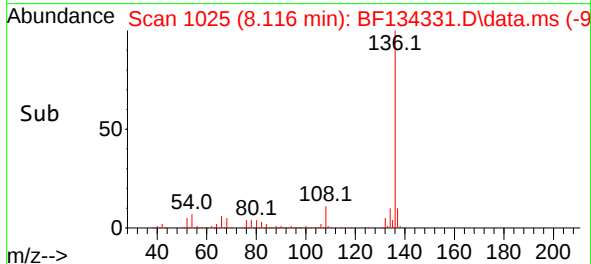
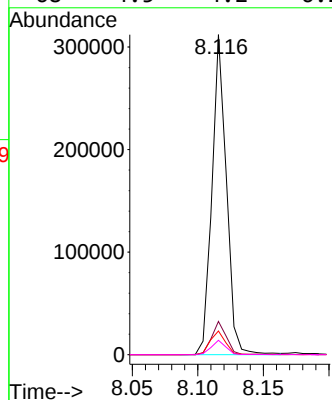
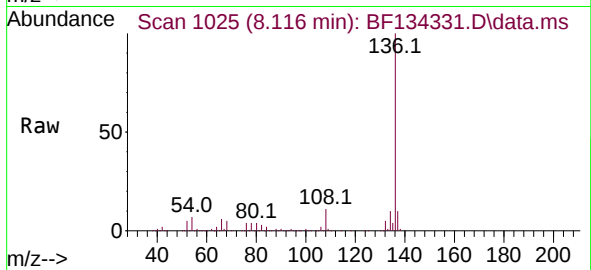


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.116 min Scan# 1025  
Delta R.T. -0.006 min  
Lab File: BF134331.D  
Acq: 17 Jul 2023 23:43

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-071323

Tgt Ion:136 Resp: 239677

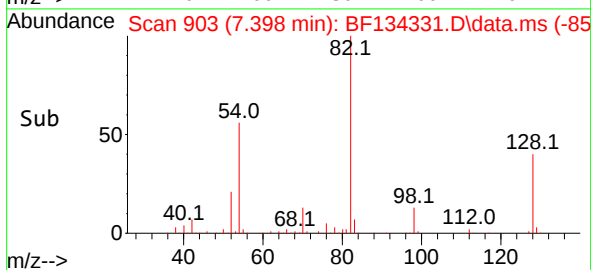
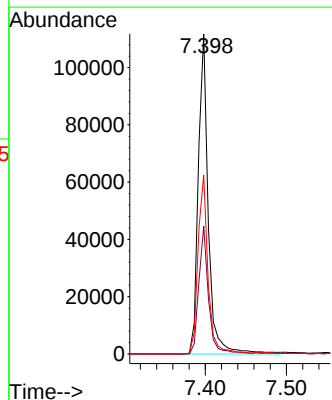
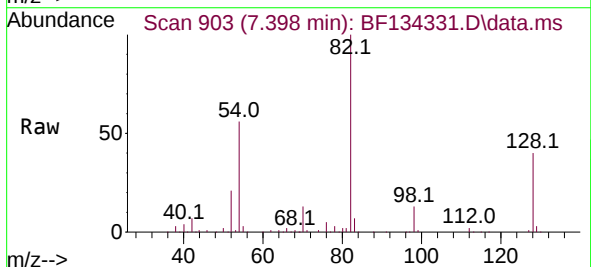
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.4  | 8.6   | 12.8  |
| 54  | 7.4   | 6.5   | 9.7   |
| 68  | 4.5   | 4.2   | 6.2   |

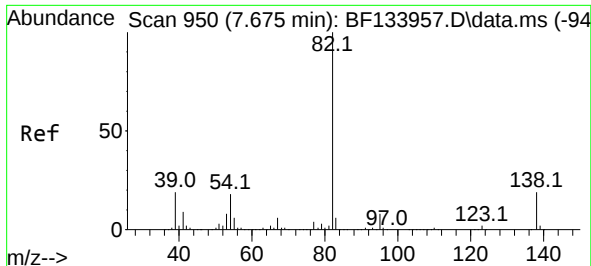


#23  
Nitrobenzene-d5  
Concen: 21.640 ng  
RT: 7.398 min Scan# 903  
Delta R.T. -0.012 min  
Lab File: BF134331.D  
Acq: 17 Jul 2023 23:43

Tgt Ion: 82 Resp: 96218

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 39.9  | 32.5  | 48.7  |
| 54  | 56.0  | 48.2  | 72.2  |

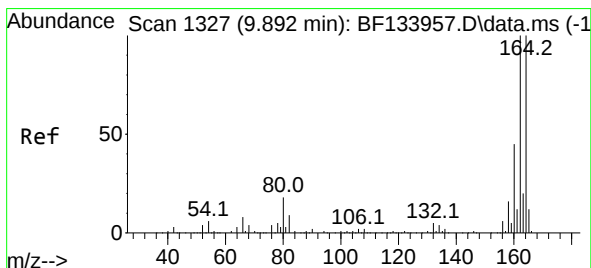
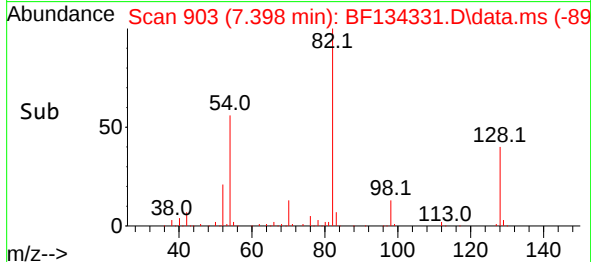
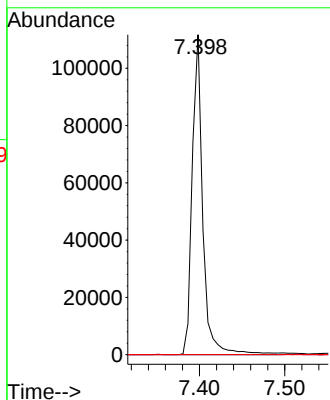
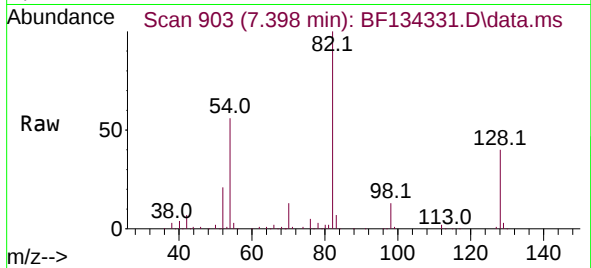




#25  
Isophorone  
Concen: 11.907 ng  
RT: 7.398 min Scan# 90  
Delta R.T. -0.265 min  
Lab File: BF134331.D  
Acq: 17 Jul 2023 23:43

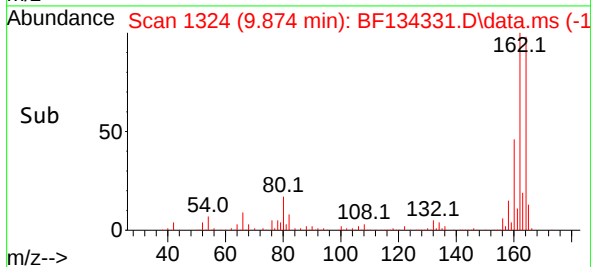
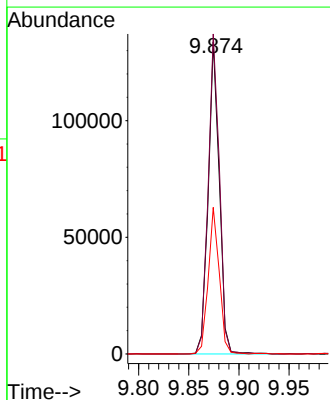
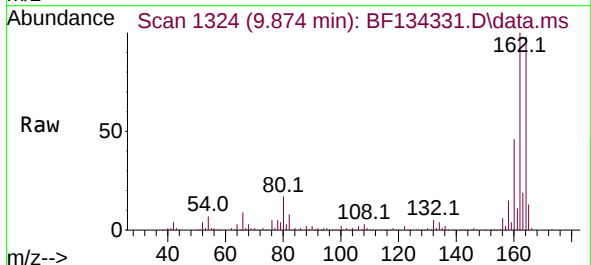
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-071323

Tgt Ion: 82 Resp: 96217  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.1 9.1#  
138 0.0 15.2 22.8#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.874 min Scan# 1324  
Delta R.T. -0.006 min  
Lab File: BF134331.D  
Acq: 17 Jul 2023 23:43

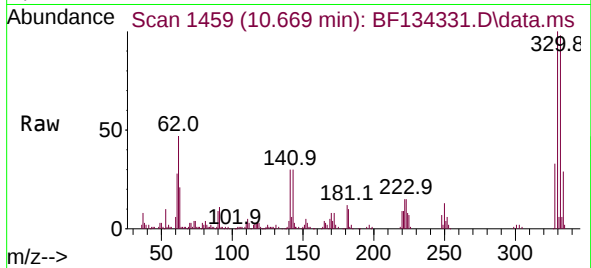
Tgt Ion: 164 Resp: 103373  
Ion Ratio Lower Upper  
164 100  
162 102.5 80.0 120.0  
160 46.9 35.9 53.9



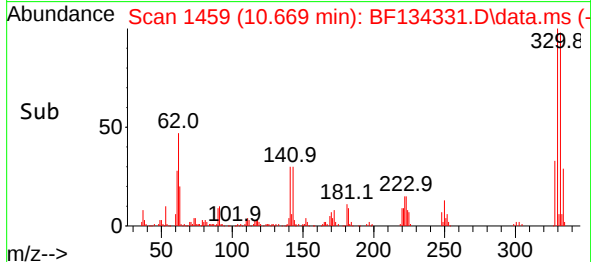
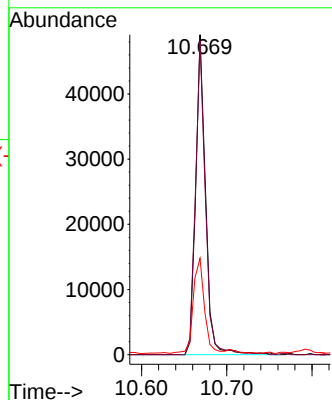


#42  
2,4,6-Tribromophenol  
Concen: 30.551 ng  
RT: 10.669 min Scan# 1462  
Delta R.T. -0.012 min  
Lab File: BF134331.D  
Acq: 17 Jul 2023 23:43

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-071323

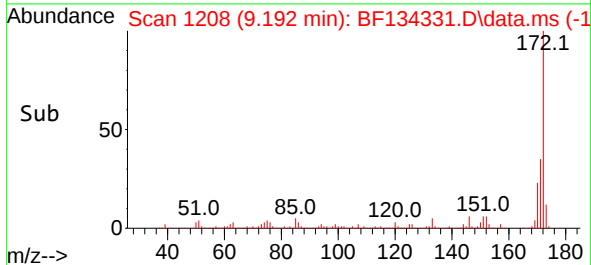
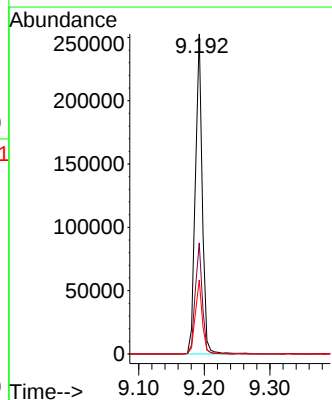
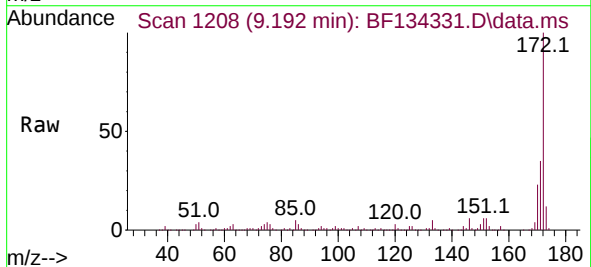


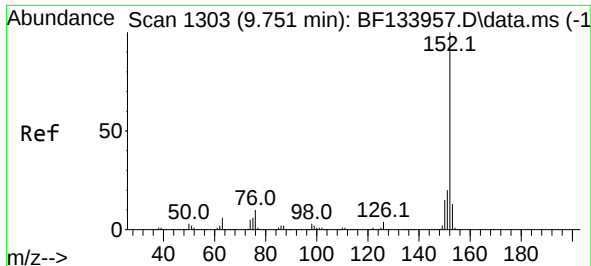
Tgt Ion:330 Resp: 39597  
Ion Ratio Lower Upper  
330 100  
332 98.9 77.0 115.6  
141 33.3 26.3 39.5



#45  
2-Fluorobiphenyl  
Concen: 26.143 ng  
RT: 9.192 min Scan# 1208  
Delta R.T. -0.012 min  
Lab File: BF134331.D  
Acq: 17 Jul 2023 23:43

Tgt Ion:172 Resp: 185879  
Ion Ratio Lower Upper  
172 100  
171 34.7 28.6 43.0  
170 23.1 19.4 29.0





#49

Acenaphthylene

Concen: 2.430 ng

RT: 9.733 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF134331.D

Acq: 17 Jul 2023 23:43

Instrument :

BNA\_F

ClientSampleId :

OR-03-071323

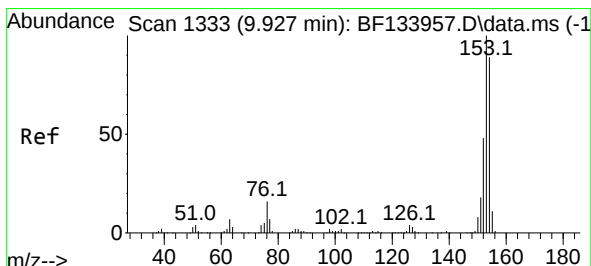
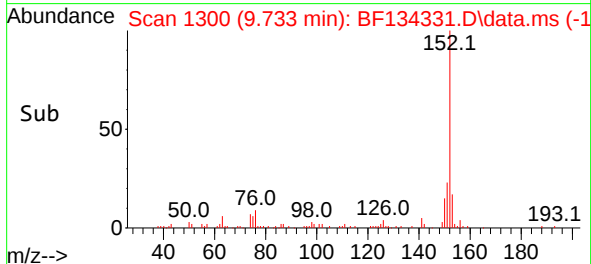
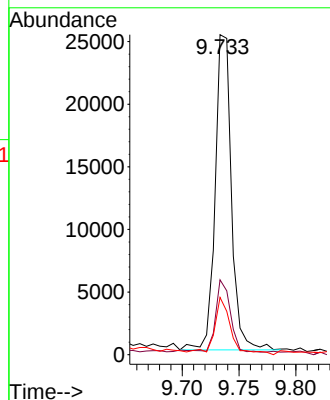
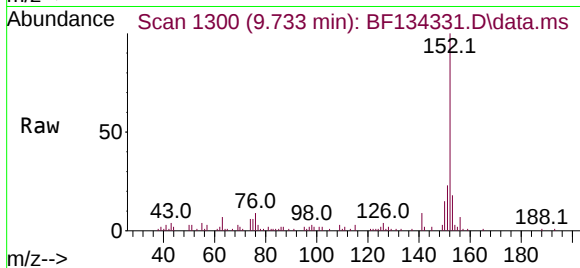
Tgt Ion:152 Resp: 25187

Ion Ratio Lower Upper

152 100

151 23.4 16.2 24.2

153 17.9 10.8 16.2#



#52

Acenaphthene

Concen: 2.452 ng

RT: 9.910 min Scan# 1330

Delta R.T. -0.006 min

Lab File: BF134331.D

Acq: 17 Jul 2023 23:43

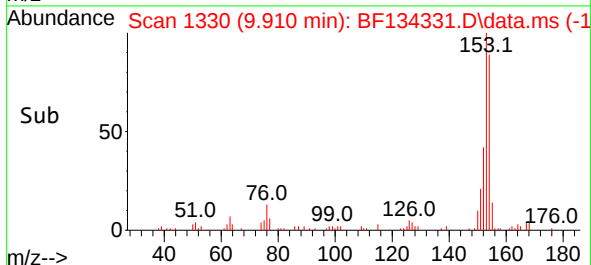
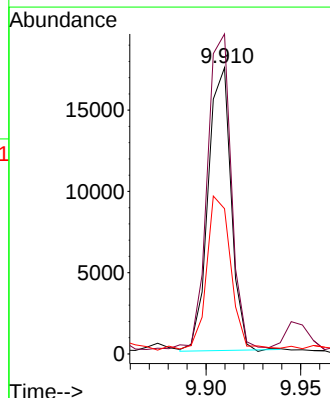
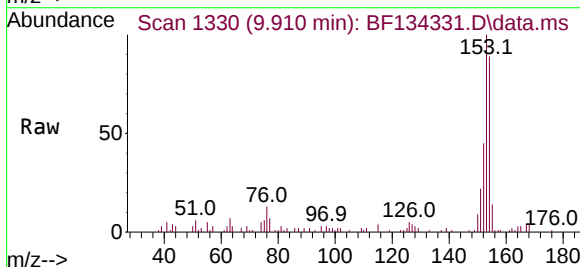
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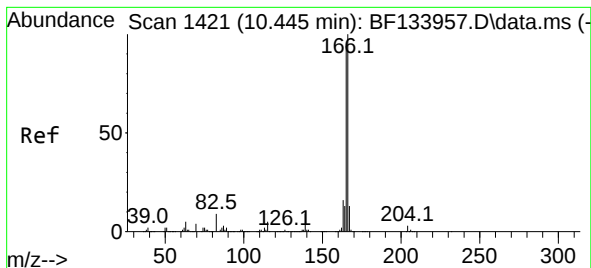
Ion Ratio Lower Upper

154 100

153 111.8 89.4 134.2

152 50.7 42.8 64.2





#58

Fluorene

Concen: 4.783 ng

RT: 10.427 min Scan# 14

Delta R.T. -0.006 min

Lab File: BF134331.D

Acq: 17 Jul 2023 23:43

Instrument :

BNA\_F

ClientSampleId :

OR-03-071323

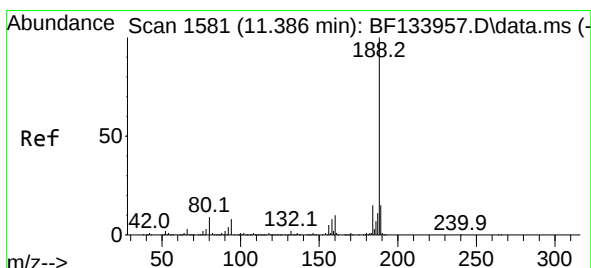
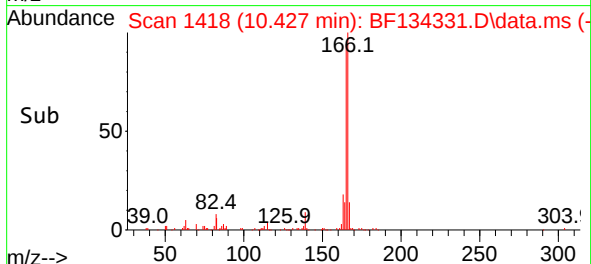
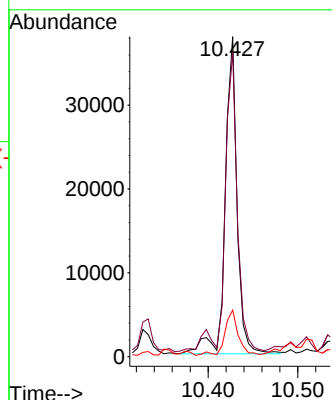
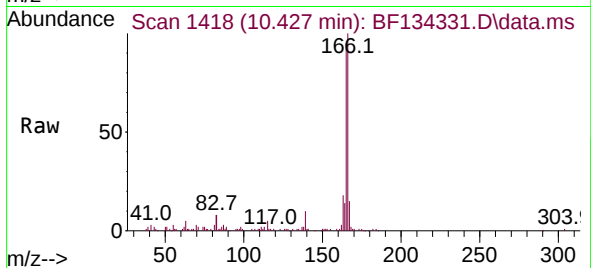
Tgt Ion:166 Resp: 34971

Ion Ratio Lower Upper

166 100

165 95.2 75.0 112.4

167 14.5 10.6 15.8



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.368 min Scan# 1578

Delta R.T. -0.006 min

Lab File: BF134331.D

Acq: 17 Jul 2023 23:43

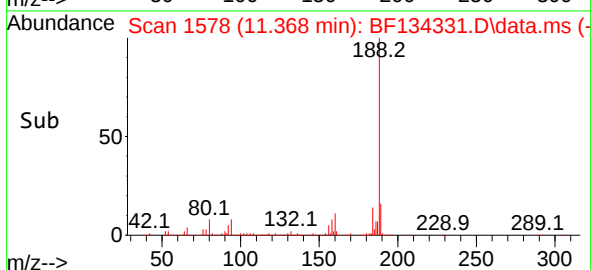
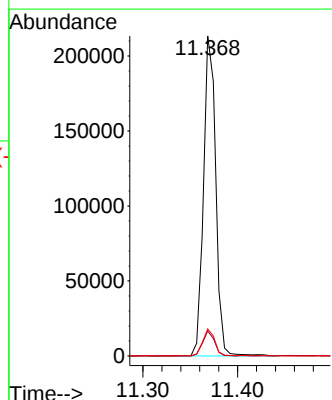
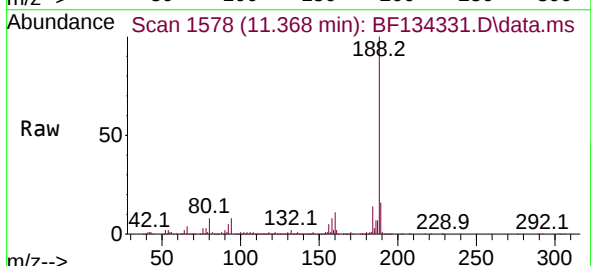
Tgt Ion:188 Resp: 190970

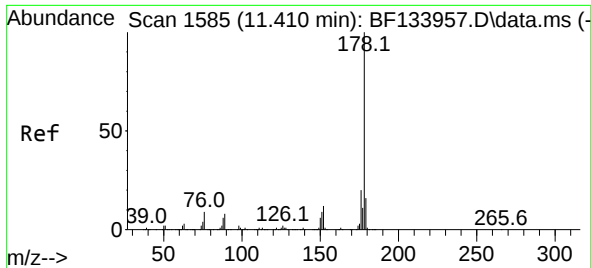
Ion Ratio Lower Upper

188 100

94 7.8 6.4 9.6

80 8.5 7.3 10.9

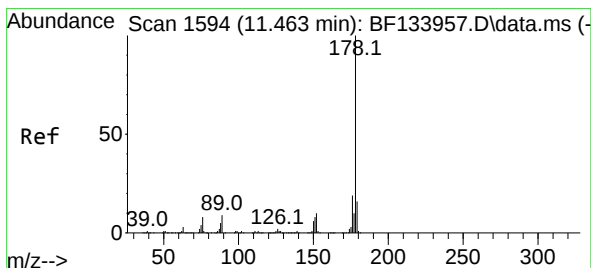
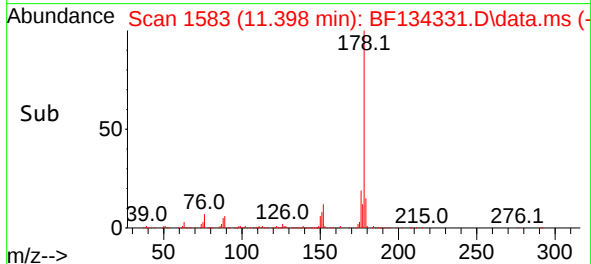
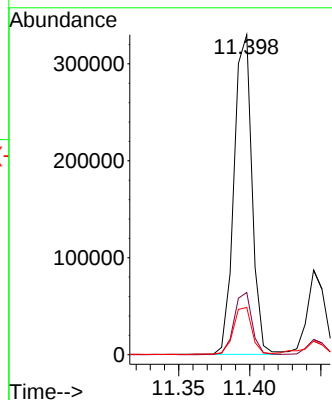
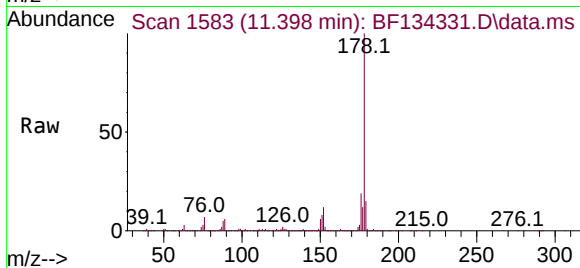




#71  
Phenanthrene  
Concen: 30.348 ng  
RT: 11.398 min Scan# 1583  
Delta R.T. -0.006 min  
Lab File: BF134331.D  
Acq: 17 Jul 2023 23:43

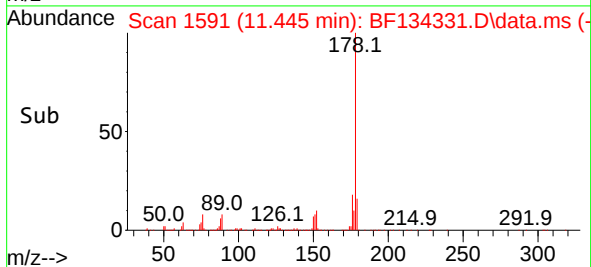
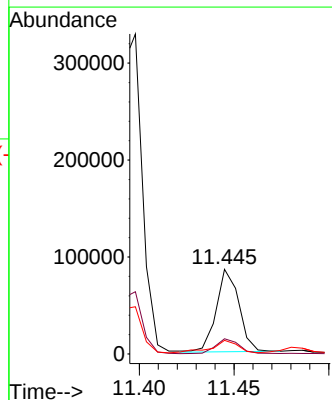
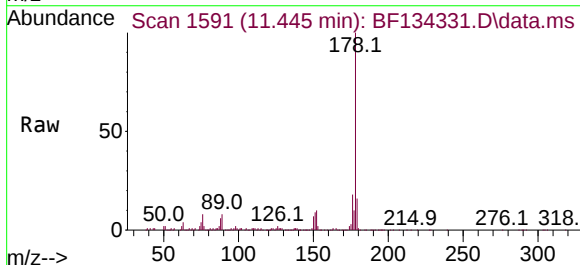
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-071323

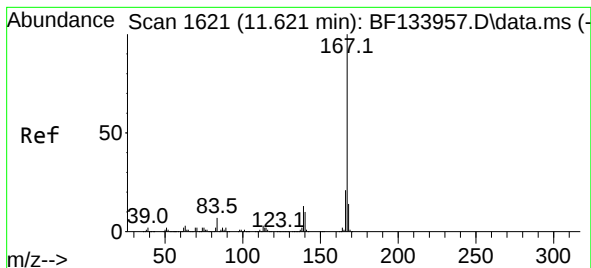
Tgt Ion:178 Resp: 291757  
Ion Ratio Lower Upper  
178 100  
176 19.5 16.0 24.0  
179 14.7 12.4 18.6



#72  
Anthracene  
Concen: 7.125 ng  
RT: 11.445 min Scan# 1591  
Delta R.T. -0.012 min  
Lab File: BF134331.D  
Acq: 17 Jul 2023 23:43

Tgt Ion:178 Resp: 71247  
Ion Ratio Lower Upper  
178 100  
176 18.0 15.3 22.9  
179 16.2 12.4 18.6





#73

Carbazole

Concen: 3.353 ng

RT: 11.604 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF134331.D

Acq: 17 Jul 2023 23:43

Instrument :

BNA\_F

ClientSampleId :

OR-03-071323

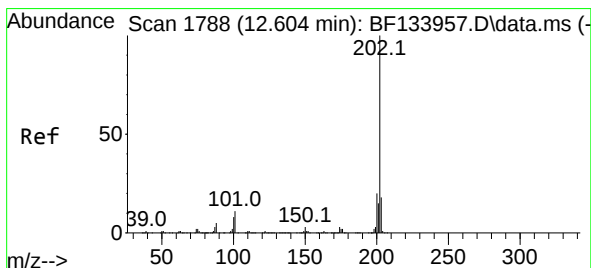
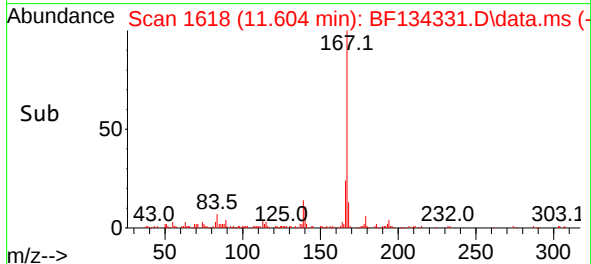
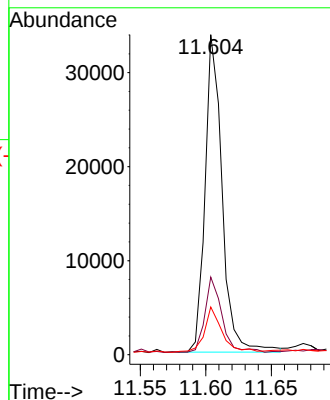
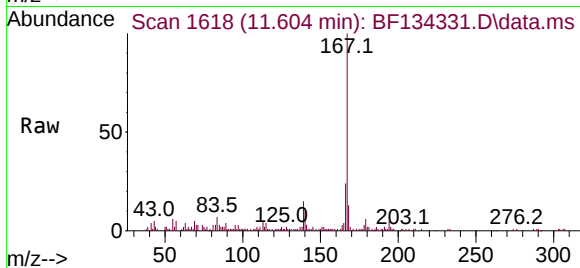
Tgt Ion:167 Resp: 30691

Ion Ratio Lower Upper

167 100

166 24.3 17.0 25.6

139 14.9 10.4 15.6



#75

Fluoranthene

Concen: 38.306 ng

RT: 12.598 min Scan# 1787

Delta R.T. -0.000 min

Lab File: BF134331.D

Acq: 17 Jul 2023 23:43

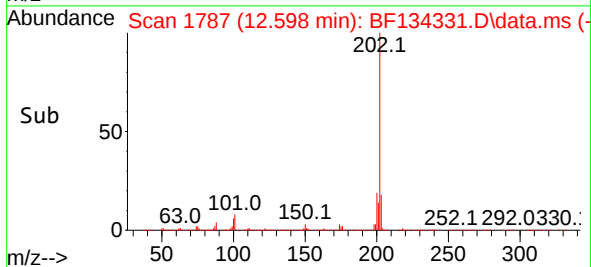
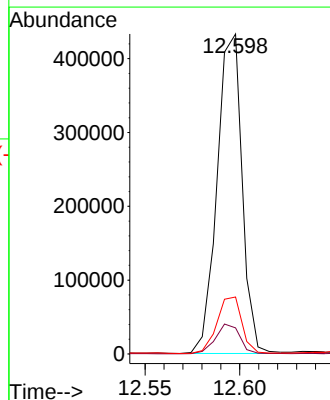
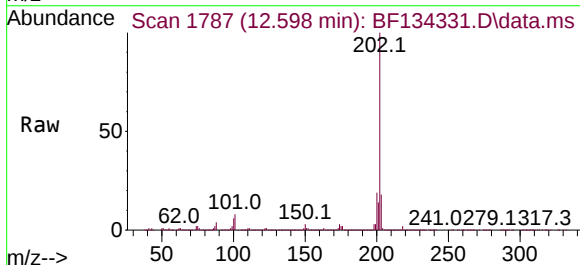
Tgt Ion:202 Resp: 398131

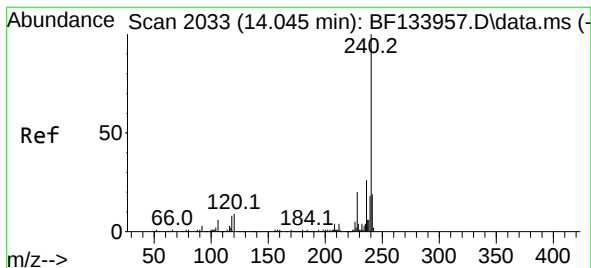
Ion Ratio Lower Upper

202 100

101 8.1 0.0 31.0

203 17.8 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2033

Delta R.T. -0.006 min

Lab File: BF134331.D

Acq: 17 Jul 2023 23:43

Instrument :

BNA\_F

ClientSampleId :

OR-03-071323

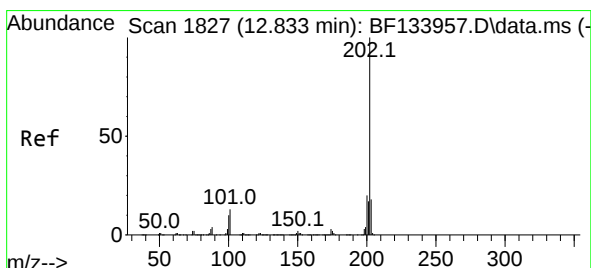
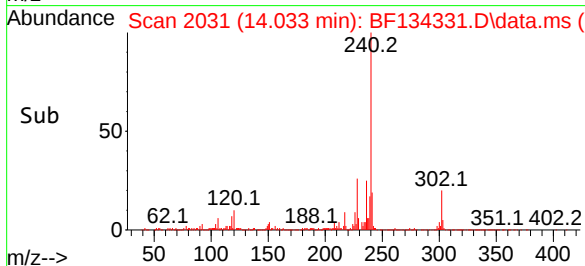
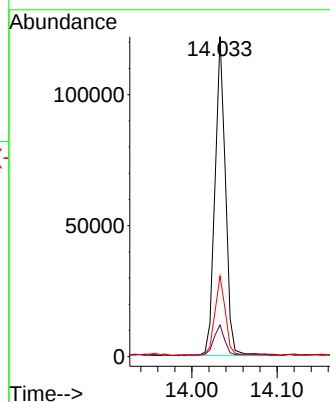
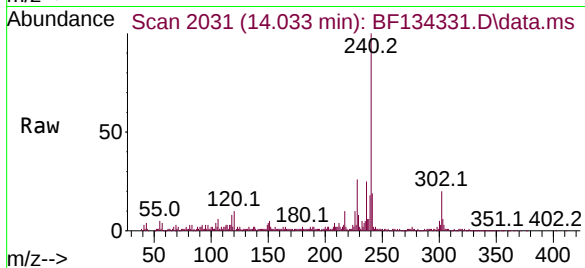
Tgt Ion:240 Resp: 104550

Ion Ratio Lower Upper

240 100

120 9.9 7.4 11.0

236 25.2 21.0 31.6



#78

Pyrene

Concen: 35.040 ng

RT: 12.827 min Scan# 1826

Delta R.T. -0.006 min

Lab File: BF134331.D

Acq: 17 Jul 2023 23:43

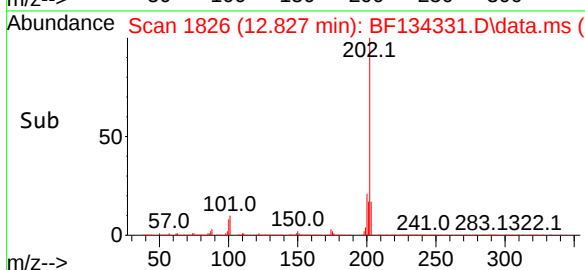
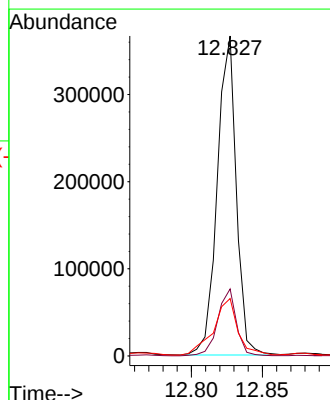
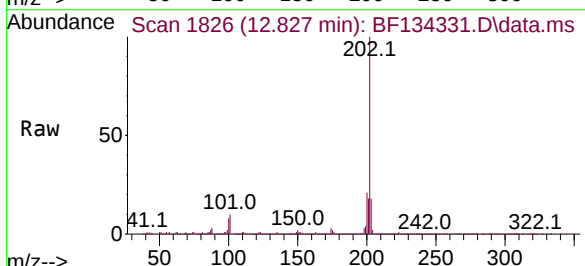
Tgt Ion:202 Resp: 340931

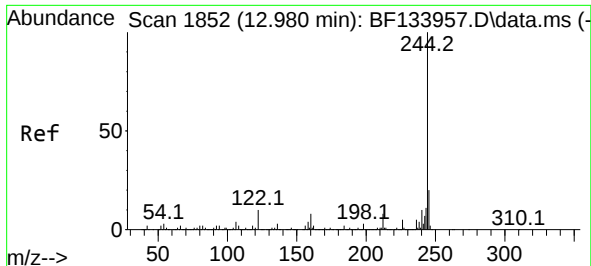
Ion Ratio Lower Upper

202 100

200 20.9 16.1 24.1

203 17.9 14.3 21.5

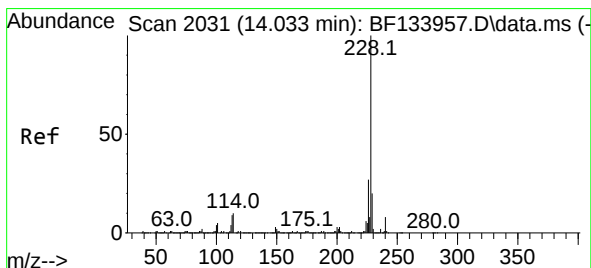
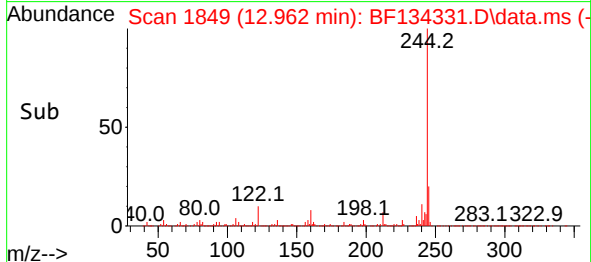
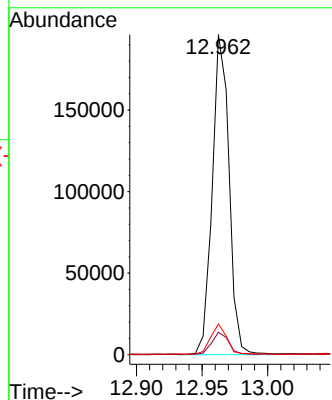
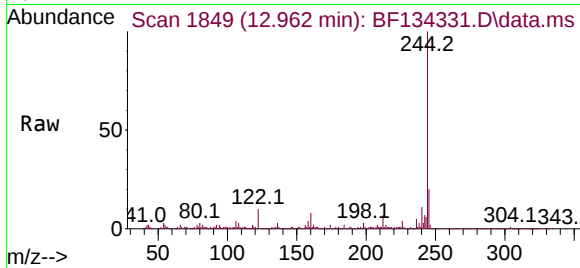




#79  
 Terphenyl-d14  
 Concen: 26.925 ng  
 RT: 12.962 min Scan# 1849  
 Delta R.T. -0.012 min  
 Lab File: BF134331.D  
 Acq: 17 Jul 2023 23:43

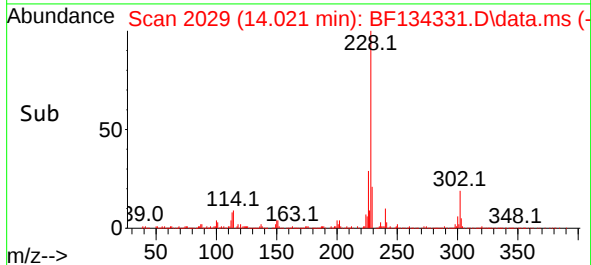
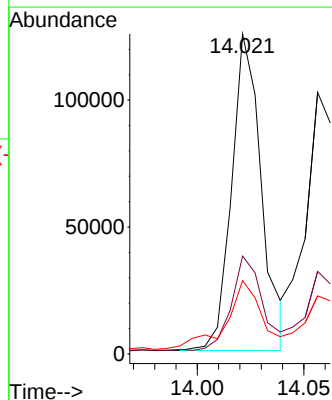
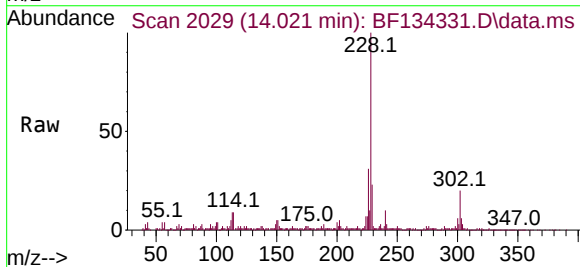
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-071323

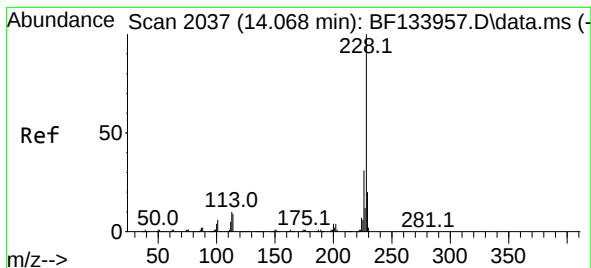
Tgt Ion:244 Resp: 174909  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 6.0 9.0  
 122 9.6 8.3 12.5



#81  
 Benzo(a)anthracene  
 Concen: 16.742 ng  
 RT: 14.021 min Scan# 2029  
 Delta R.T. -0.006 min  
 Lab File: BF134331.D  
 Acq: 17 Jul 2023 23:43

Tgt Ion:228 Resp: 121395  
 Ion Ratio Lower Upper  
 228 100  
 226 30.6 22.0 33.0  
 229 22.9 16.3 24.5





#83

Chrysene

Concen: 14.927 ng

RT: 14.057 min Scan# 2035

Delta R.T. -0.012 min

Lab File: BF134331.D

Acq: 17 Jul 2023 23:43

Instrument :

BNA\_F

ClientSampleId :

OR-03-071323

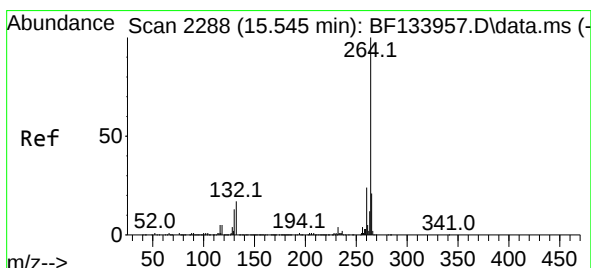
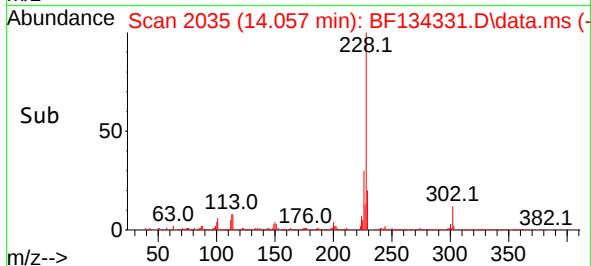
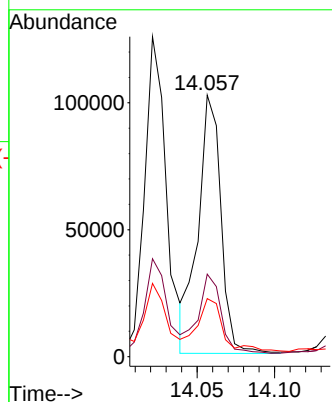
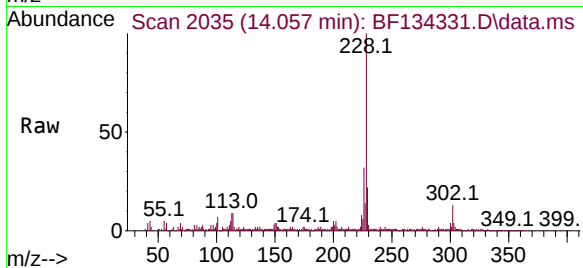
Tgt Ion:228 Resp: 104830

Ion Ratio Lower Upper

228 100

226 31.6 24.4 36.6

229 22.2 16.1 24.1



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 2287

Delta R.T. -0.006 min

Lab File: BF134331.D

Acq: 17 Jul 2023 23:43

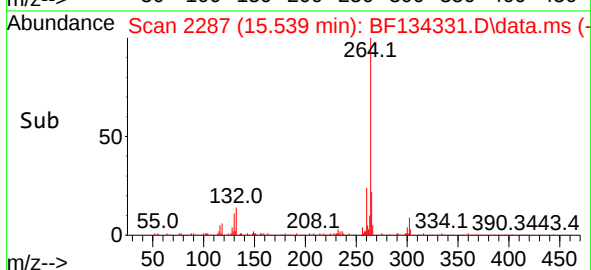
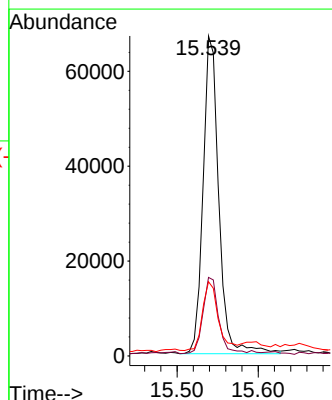
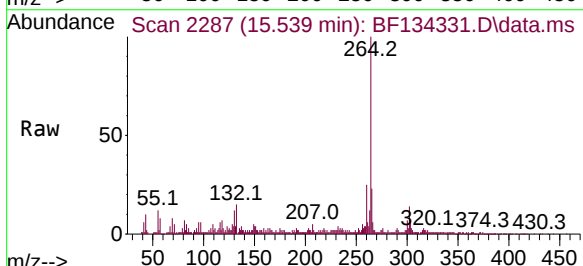
Tgt Ion:264 Resp: 89955

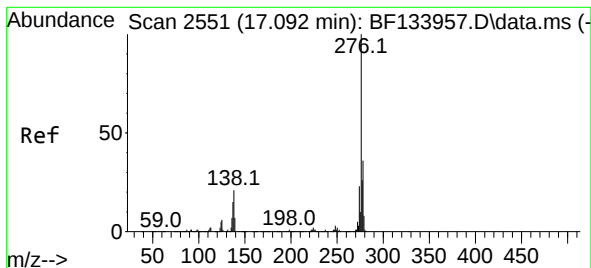
Ion Ratio Lower Upper

264 100

260 24.6 19.5 29.3

265 23.2 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 5.978 ng

RT: 17.086 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF134331.D

Acq: 17 Jul 2023 23:43

Instrument :

BNA\_F

ClientSampleId :

OR-03-071323

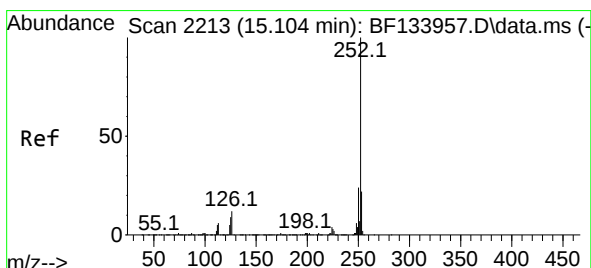
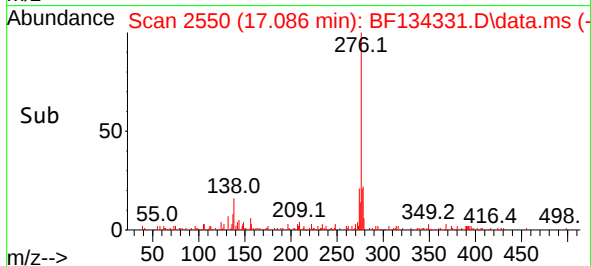
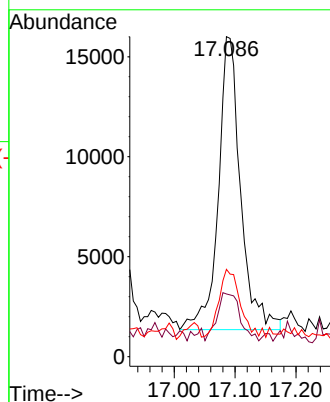
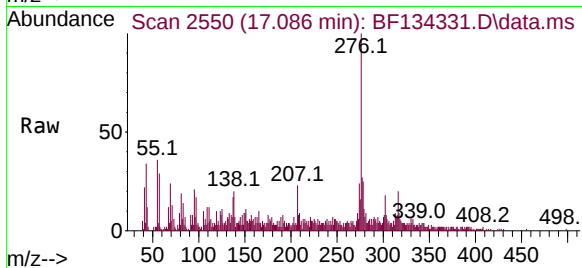
Tgt Ion:276 Resp: 37315

Ion Ratio Lower Upper

276 100

138 16.6 18.7 28.1#

277 21.1 19.9 29.9



#88

Benzo(b)fluoranthene

Concen: 25.046 ng

RT: 15.098 min Scan# 2212

Delta R.T. -0.006 min

Lab File: BF134331.D

Acq: 17 Jul 2023 23:43

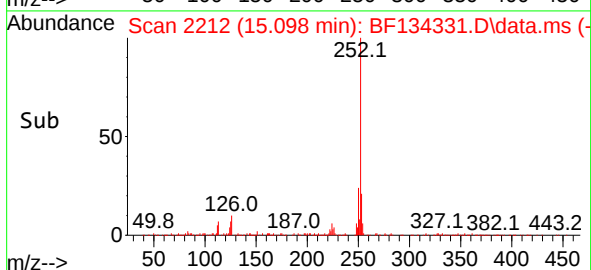
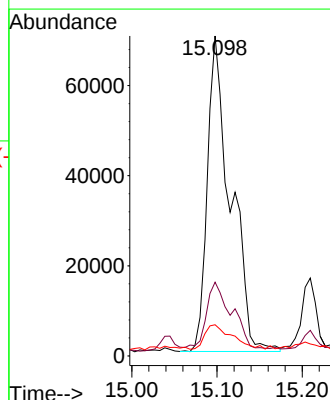
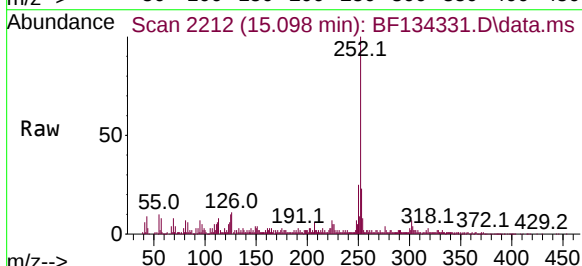
Tgt Ion:252 Resp: 132477

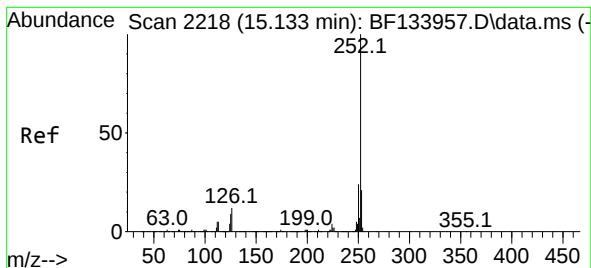
Ion Ratio Lower Upper

252 100

253 23.1 17.4 26.0

125 9.7 7.1 10.7





#89

Benzo(k)fluoranthene

Concen: 24.599 ng

RT: 15.098 min Scan# 21

Delta R.T. -0.035 min

Lab File: BF134331.D

Acq: 17 Jul 2023 23:43

Instrument :

BNA\_F

ClientSampleId :

OR-03-071323

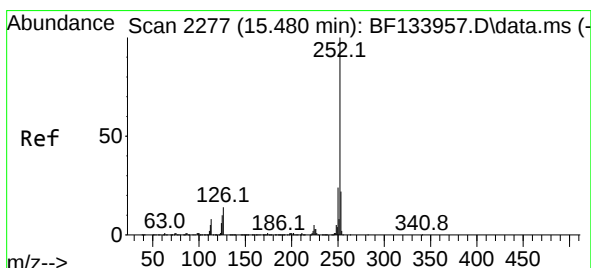
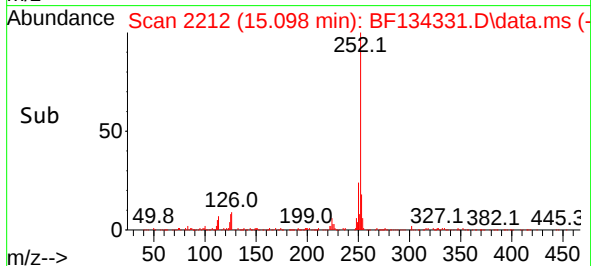
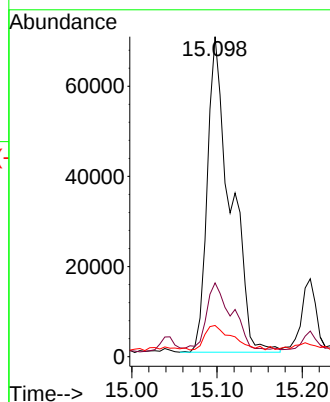
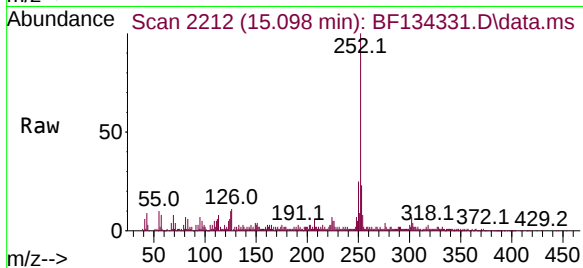
Tgt Ion:252 Resp: 132477

Ion Ratio Lower Upper

252 100

253 23.1 16.9 25.3

125 9.7 7.4 11.2



#90

Benzo(a)pyrene

Concen: 14.026 ng

RT: 15.474 min Scan# 2276

Delta R.T. -0.006 min

Lab File: BF134331.D

Acq: 17 Jul 2023 23:43

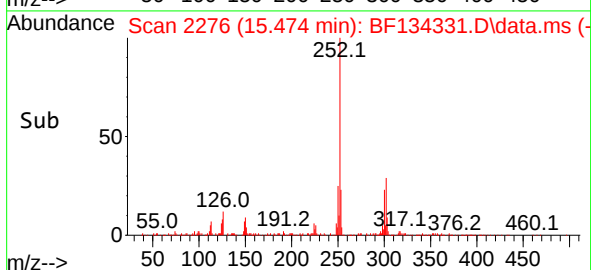
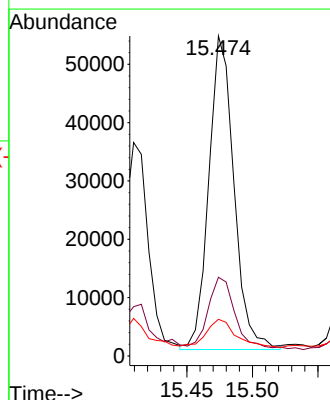
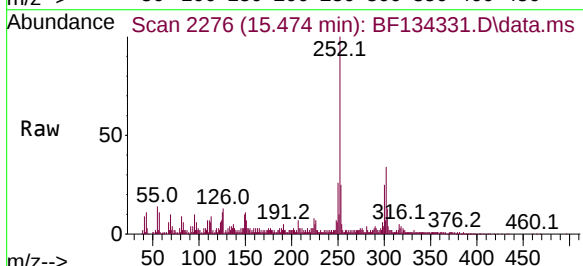
Tgt Ion:252 Resp: 71740

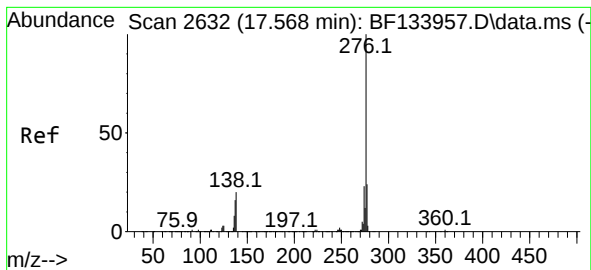
Ion Ratio Lower Upper

252 100

253 24.6 17.4 26.0

125 11.5 8.4 12.6





#92

Benzo(g,h,i)perylene

Concen: 7.663 ng

RT: 17.568 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF134331.D

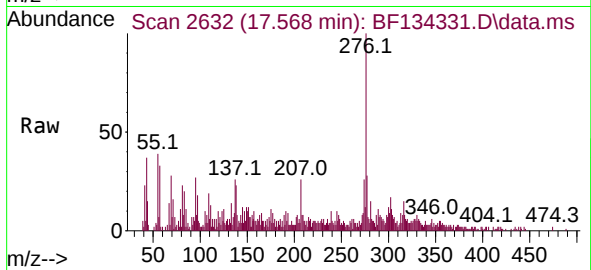
Acq: 17 Jul 2023 23:43

Instrument :

BNA\_F

ClientSampleId :

OR-03-071323



Tgt Ion:276 Resp: 40290

Ion Ratio Lower Upper

276 100

277 28.3 19.0 28.6

138 23.1 16.2 24.2

