

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101823\  
 Data File : BF135861.D  
 Acq On : 18 Oct 2023 22:27  
 Operator : CG\JU  
 Sample : 04882-02  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ-218

Quant Time: Oct 19 02:09:44 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101323.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 17 01:22:00 2023  
 Response via : Initial Calibration

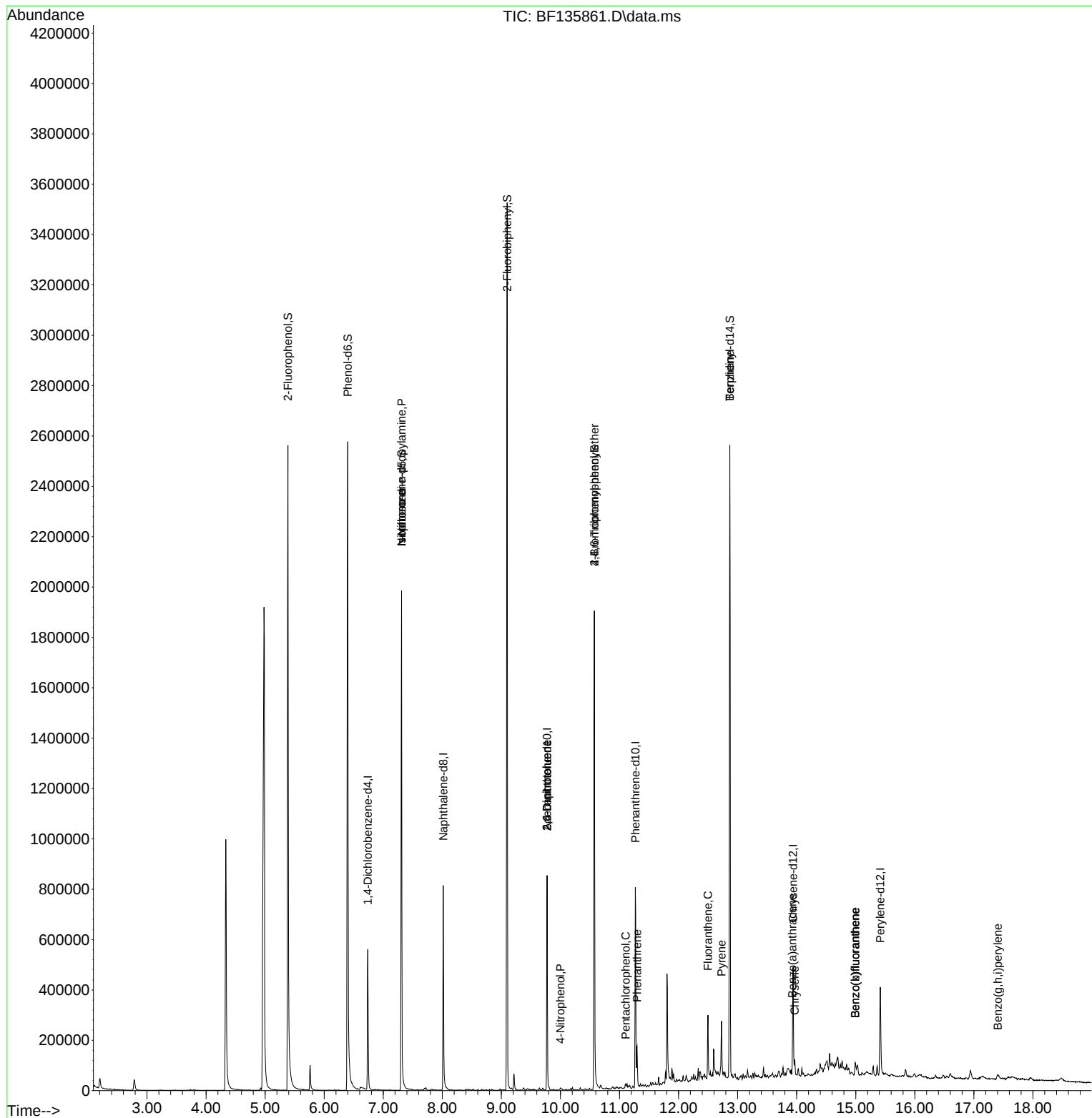
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.740  | 152  | 84688    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.016  | 136  | 338384   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.775  | 164  | 157615   | 20.000  | ng    | -0.01    |
| 64) Phenanthrene-d10          | 11.269 | 188  | 304698   | 20.000  | ng    | -0.01    |
| 76) Chrysene-d12              | 13.939 | 240  | 145432   | 20.000  | ng    | -0.01    |
| 86) Perylene-d12              | 15.415 | 264  | 172164   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.387  | 112  | 737620   | 140.033 | ng    | 0.01     |
| 7) Phenol-d6                  | 6.398  | 99   | 920087   | 139.993 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.310  | 82   | 573471   | 93.209  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.575 | 330  | 236229   | 156.190 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.098  | 172  | 1044188  | 103.581 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.869 | 244  | 939601   | 119.648 | ng    | -0.01    |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.310  | 70   | 77346    | 19.033  | ng    | # 74     |
| 25) Isophorone                | 7.310  | 82   | 573471   | 49.407  | ng    | # 66     |
| 51) 2,6-Dinitrotoluene        | 9.775  | 165  | 20935    | 9.150   | ng    | # 15     |
| 56) 4-Nitrophenol             | 9.998  | 139  | 548      | 5.890   | ng    | # 5      |
| 57) 2,4-Dinitrotoluene        | 9.775  | 165  | 20935    | 7.192   | ng    | # 23     |
| 67) 4-Bromophenyl-phenylether | 10.575 | 248  | 14563    | 4.761   | ng    | # 1      |
| 70) Pentachlorophenol         | 11.104 | 266  | 2657     | 2.163   | ng    | 95       |
| 71) Phenanthrene              | 11.298 | 178  | 63585    | 4.356   | ng    | 99       |
| 75) Fluoranthene              | 12.498 | 202  | 98063    | 6.053   | ng    | 97       |
| 77) Benzidine                 | 12.869 | 184  | 11998    | 3.781   | ng    | # 91     |
| 78) Pyrene                    | 12.727 | 202  | 90051    | 7.792   | ng    | 98       |
| 81) Benzo(a)anthracene        | 13.927 | 228  | 21739    | 2.276   | ng    | 96       |
| 83) Chrysene                  | 13.968 | 228  | 27276    | 2.948   | ng    | 100      |
| 88) Benzo(b)fluoranthene      | 14.992 | 252  | 39248    | 4.073   | ng    | # 95     |
| 89) Benzo(k)fluoranthene      | 14.992 | 252  | 39248    | 4.196   | ng    | # 94     |
| 92) Benzo(g,h,i)perylene      | 17.404 | 276  | 16711    | 2.115   | ng    | 96       |
| -----                         |        |      |          |         |       |          |

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

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ALS Vial : 7 Sample Multiplier: 1

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VNJ-218

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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101323.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 17 01:22:00 2023  
Response via : Initial Calibration

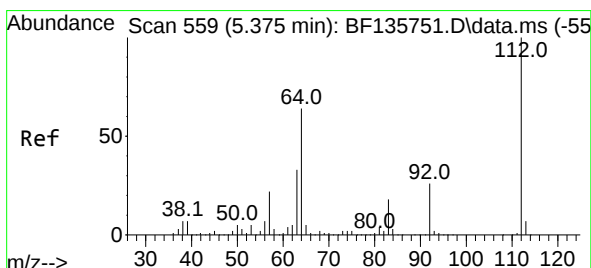
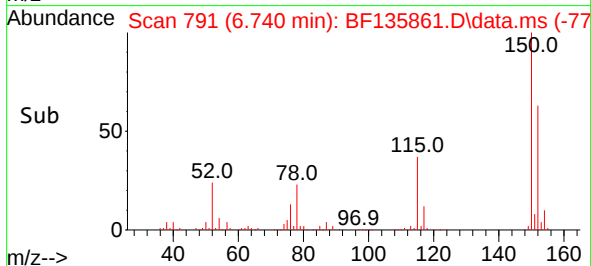
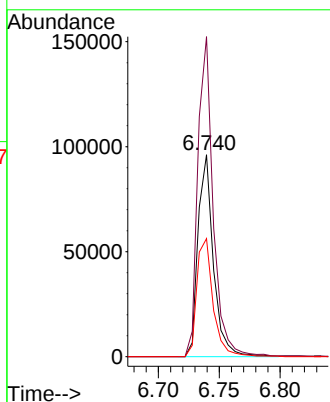
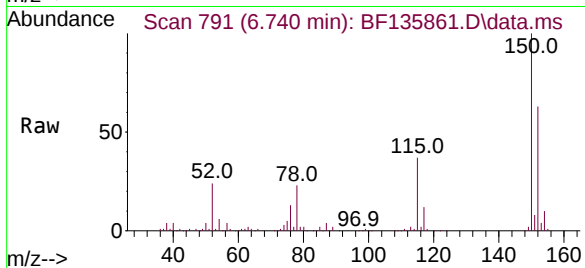




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.740 min Scan# 791  
Delta R.T. -0.006 min  
Lab File: BF135861.D  
Acq: 18 Oct 2023 22:27

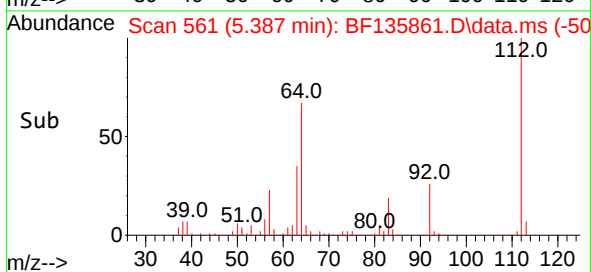
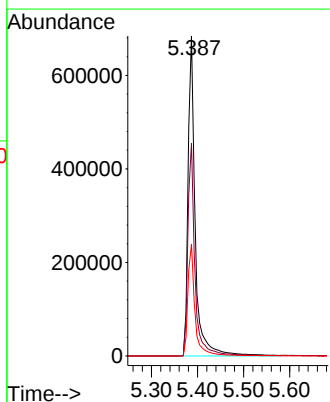
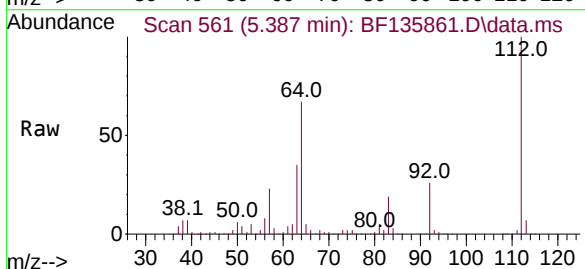
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-218

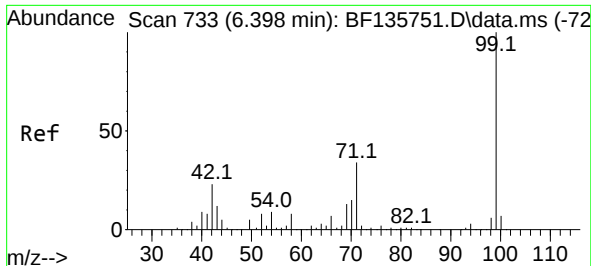
Tgt Ion:152 Resp: 84688  
Ion Ratio Lower Upper  
152 100  
150 158.5 124.5 186.7  
115 58.5 49.0 73.4



#5  
2-Fluorophenol  
Concen: 140.033 ng  
RT: 5.387 min Scan# 561  
Delta R.T. 0.012 min  
Lab File: BF135861.D  
Acq: 18 Oct 2023 22:27

Tgt Ion:112 Resp: 737620  
Ion Ratio Lower Upper  
112 100  
64 66.5 51.2 76.8  
63 35.0 26.1 39.1

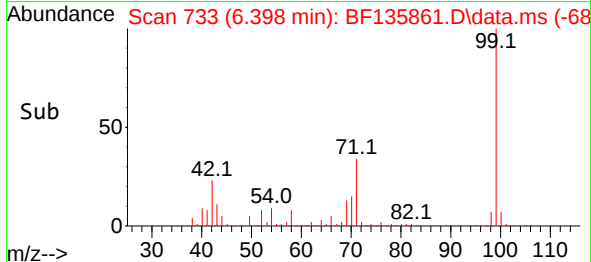
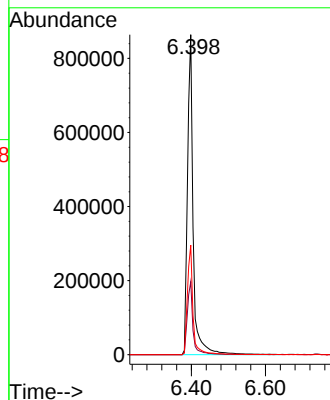
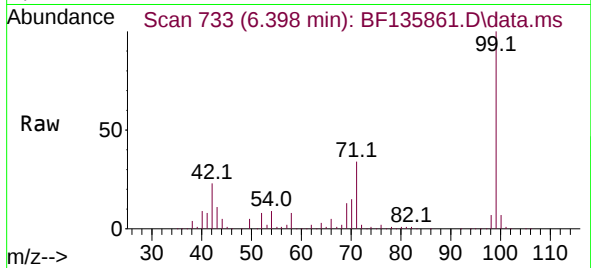




#7  
Phenol-d6  
Concen: 139.993 ng  
RT: 6.398 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: BF135861.D  
Acq: 18 Oct 2023 22:27

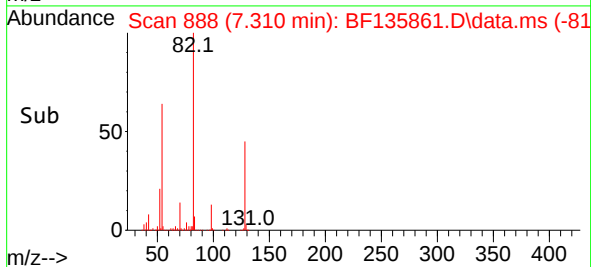
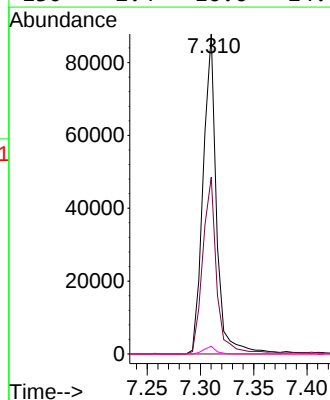
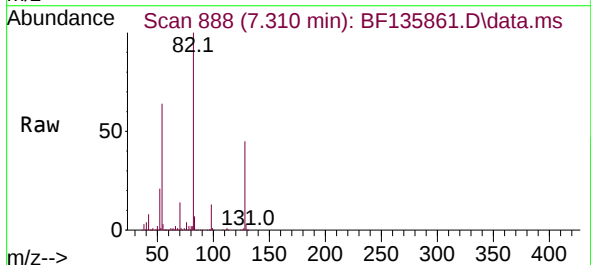
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-218

Tgt Ion: 99 Resp: 920087  
Ion Ratio Lower Upper  
99 100  
42 22.8 18.4 27.6  
71 34.3 27.2 40.8



#19  
n-Nitroso-di-n-propylamine  
Concen: 19.033 ng  
RT: 7.310 min Scan# 888  
Delta R.T. 0.147 min  
Lab File: BF135861.D  
Acq: 18 Oct 2023 22:27

Tgt Ion: 70 Resp: 77346  
Ion Ratio Lower Upper  
70 100  
42 55.2 59.8 89.6#  
101 0.0 7.4 11.2#  
130 2.4 16.6 24.8#



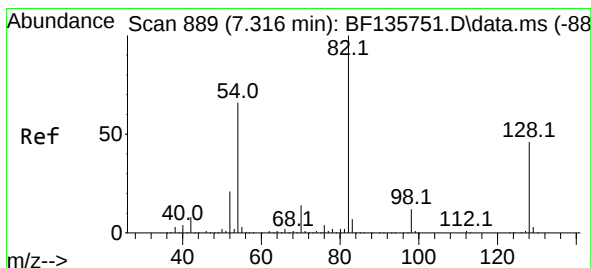
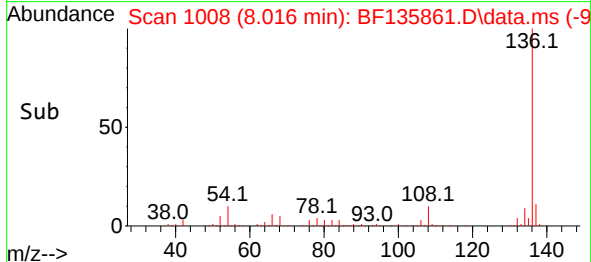
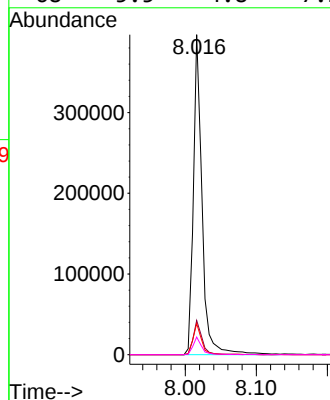
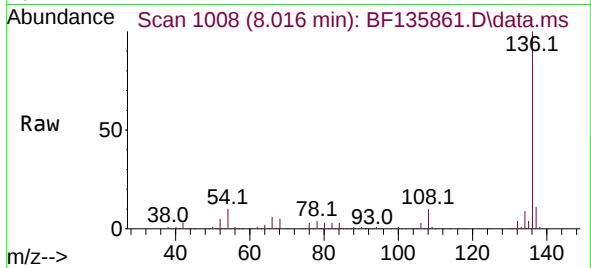


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.016 min Scan# 1009  
Delta R.T. -0.006 min  
Lab File: BF135861.D  
Acq: 18 Oct 2023 22:27

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-218

Tgt Ion:136 Resp: 338384

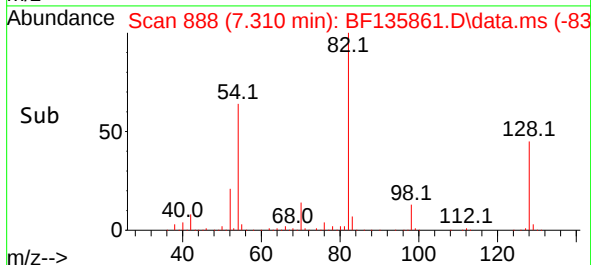
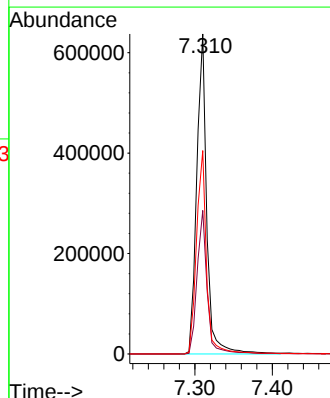
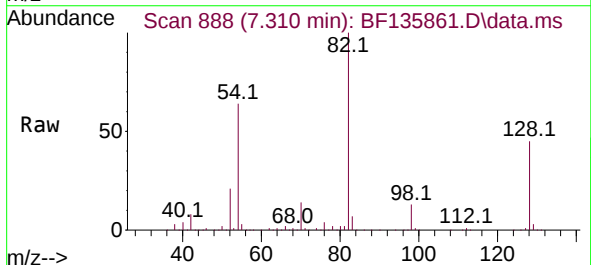
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.7  | 8.6   | 12.8  |
| 54  | 9.7   | 8.5   | 12.7  |
| 68  | 5.5   | 4.8   | 7.2   |



#23  
Nitrobenzene-d5  
Concen: 93.209 ng  
RT: 7.310 min Scan# 888  
Delta R.T. -0.006 min  
Lab File: BF135861.D  
Acq: 18 Oct 2023 22:27

Tgt Ion: 82 Resp: 573471

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 44.8  | 37.0  | 55.6  |
| 54  | 63.5  | 52.8  | 79.2  |

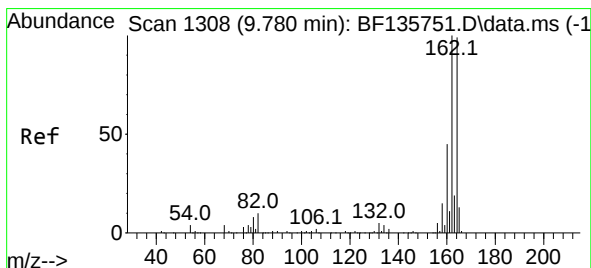
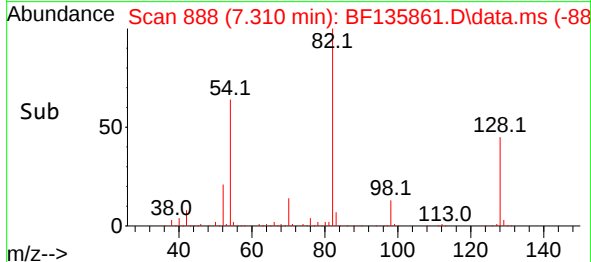
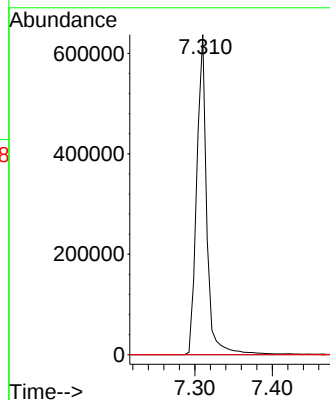
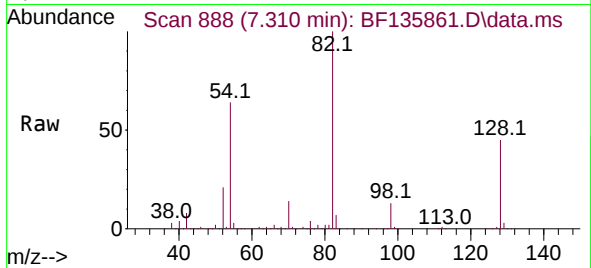




#25  
Isophorone  
Concen: 49.407 ng  
RT: 7.310 min Scan# 81  
Delta R.T. -0.259 min  
Lab File: BF135861.D  
Acq: 18 Oct 2023 22:27

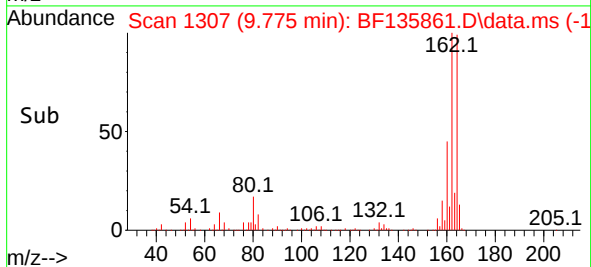
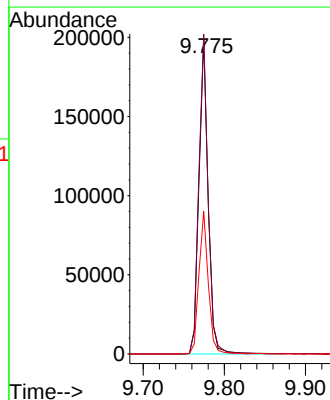
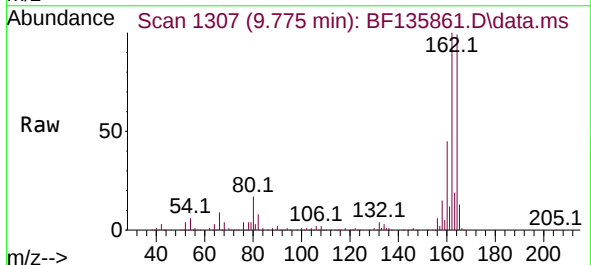
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-218

Tgt Ion: 82 Resp: 573471  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.5 8.3#  
138 0.0 13.9 20.9#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.775 min Scan# 1307  
Delta R.T. -0.012 min  
Lab File: BF135861.D  
Acq: 18 Oct 2023 22:27

Tgt Ion:164 Resp: 157615  
Ion Ratio Lower Upper  
164 100  
162 101.5 80.8 121.2  
160 45.3 36.6 54.8





#42

2,4,6-Tribromophenol

Concen: 156.190 ng

RT: 10.575 min Scan# 1444

Delta R.T. -0.012 min

Lab File: BF135861.D

Acq: 18 Oct 2023 22:27

Instrument :

BNA\_F

ClientSampleId :

VNJ-218

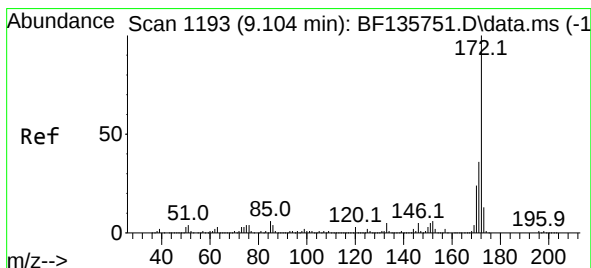
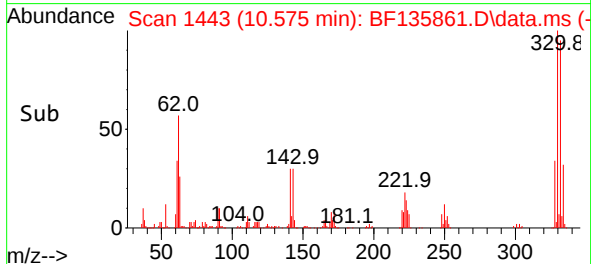
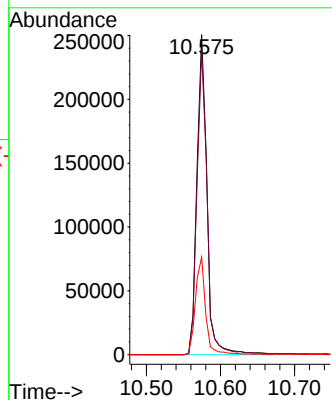
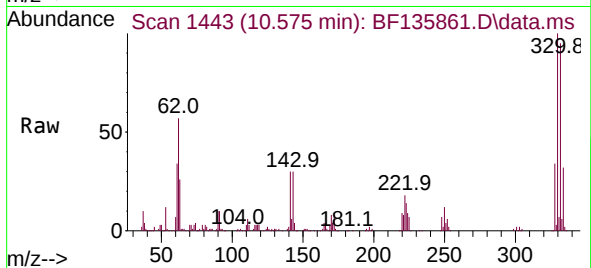
Tgt Ion:330 Resp: 236229

Ion Ratio Lower Upper

330 100

332 95.7 75.0 112.4

141 31.0 25.8 38.6



#45

2-Fluorobiphenyl

Concen: 103.581 ng

RT: 9.098 min Scan# 1192

Delta R.T. -0.006 min

Lab File: BF135861.D

Acq: 18 Oct 2023 22:27

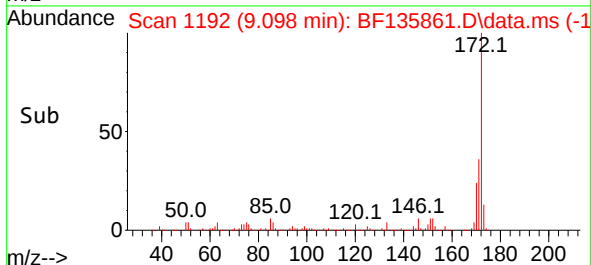
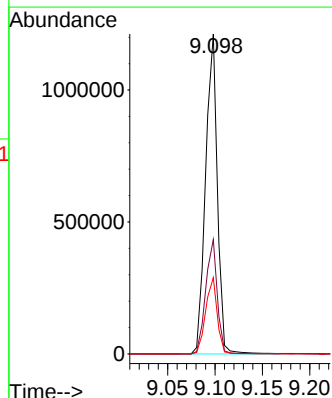
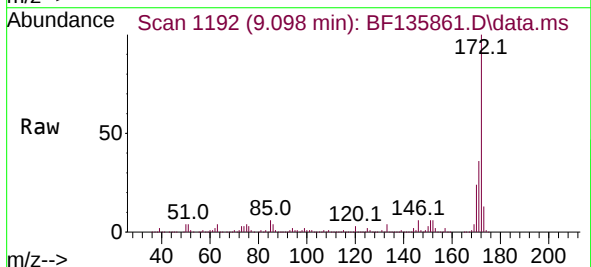
Tgt Ion:172 Resp: 1044188

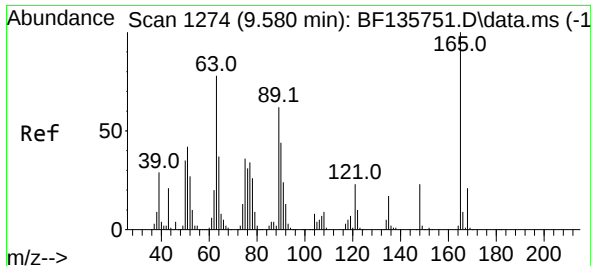
Ion Ratio Lower Upper

172 100

171 35.8 28.4 42.6

170 23.8 18.8 28.2

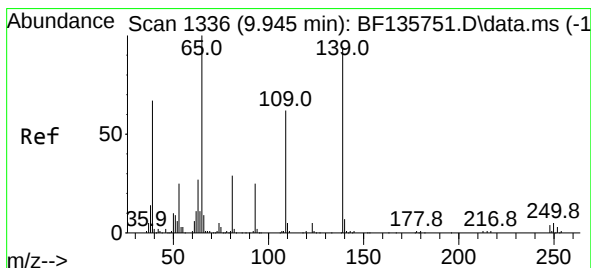
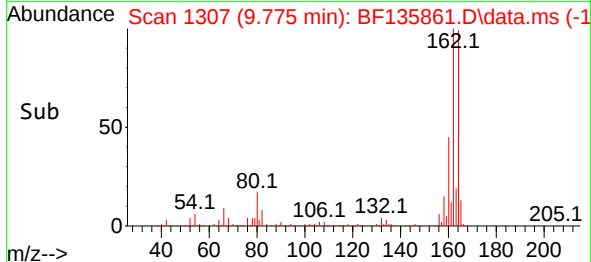
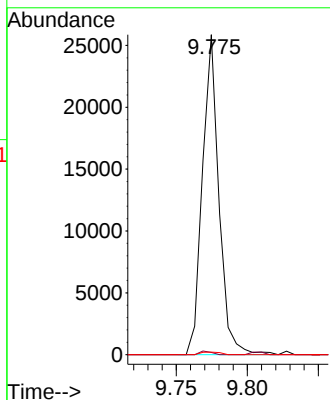
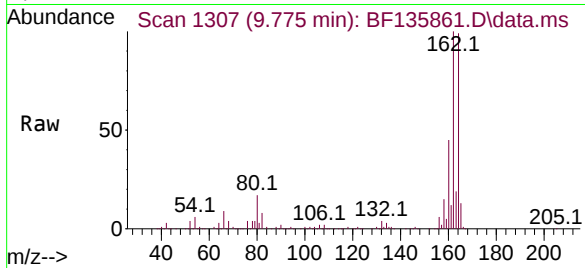




#51  
2,6-Dinitrotoluene  
Concen: 9.150 ng  
RT: 9.775 min Scan# 11  
Delta R.T. 0.188 min  
Lab File: BF135861.D  
Acq: 18 Oct 2023 22:27

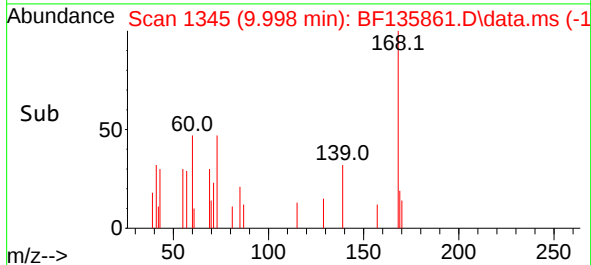
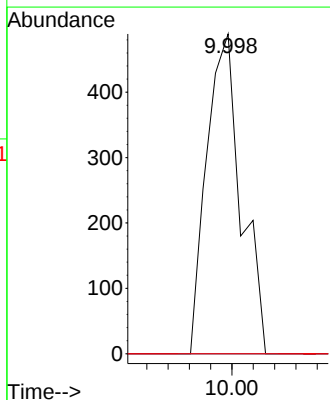
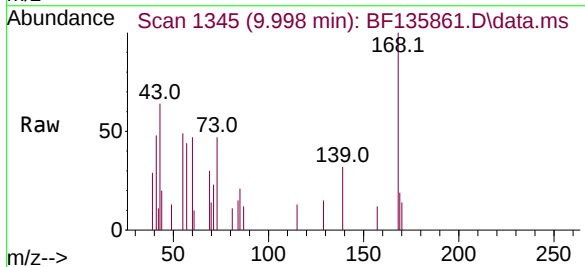
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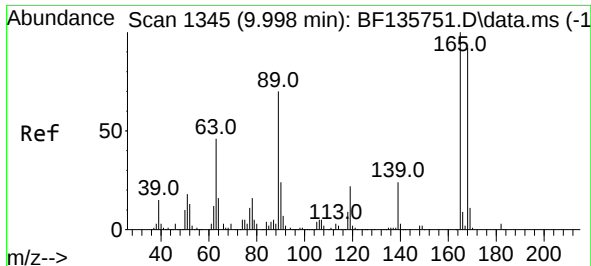
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Ion Ratio Lower Upper  
165 100  
63 0.7 62.2 93.4#  
89 0.8 49.6 74.4#



#56  
4-Nitrophenol  
Concen: 5.890 ng  
RT: 9.998 min Scan# 1345  
Delta R.T. 0.053 min  
Lab File: BF135861.D  
Acq: 18 Oct 2023 22:27

Tgt Ion:139 Resp: 548  
Ion Ratio Lower Upper  
139 100  
109 0.0 45.6 85.6#  
65 0.0 87.5 127.5#

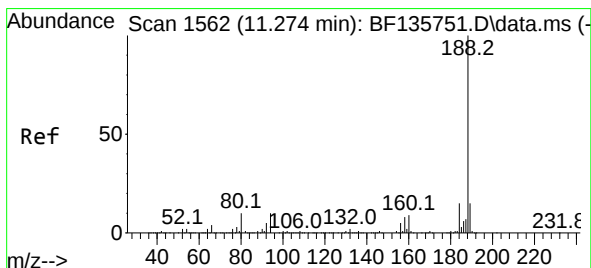
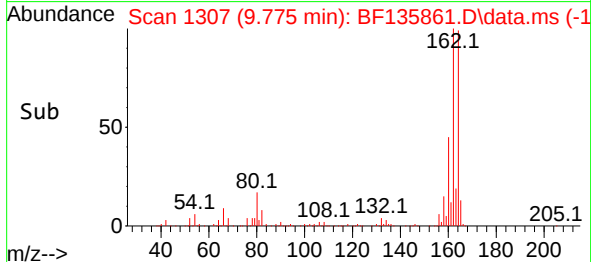
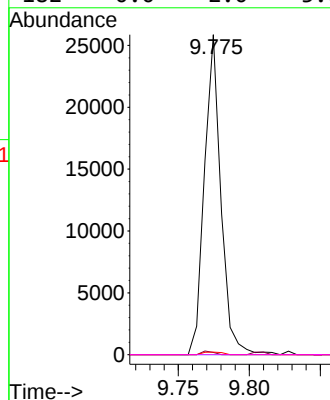
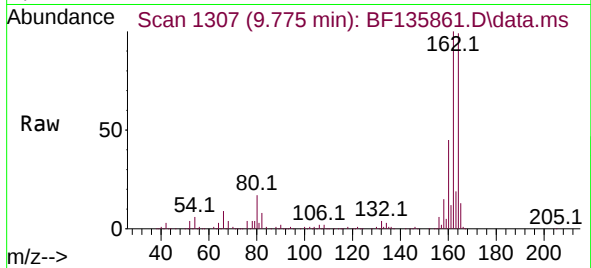




#57  
2,4-Dinitrotoluene  
Concen: 7.192 ng  
RT: 9.775 min Scan# 11  
Delta R.T. -0.229 min  
Lab File: BF135861.D  
Acq: 18 Oct 2023 22:27

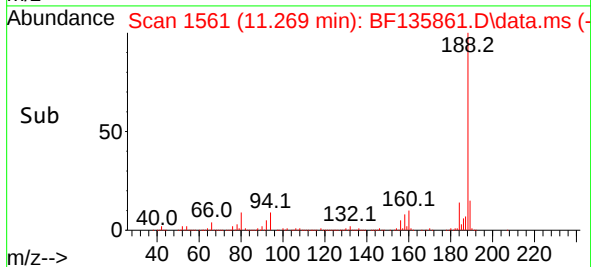
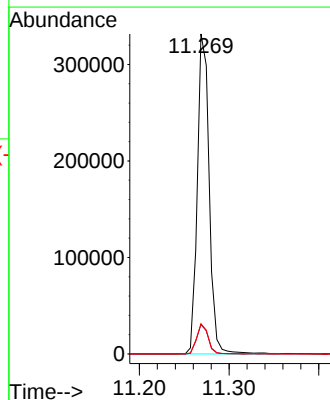
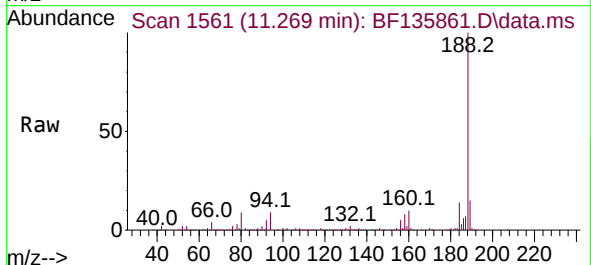
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-218

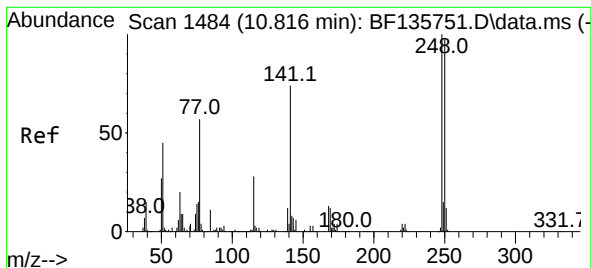
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:165 | Resp: | 20935      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 0.7   | 39.0 58.4# |
| 89          | 0.8   | 55.9 83.9# |
| 182         | 0.0   | 2.0 3.0#   |



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.269 min Scan# 1561  
Delta R.T. -0.012 min  
Lab File: BF135861.D  
Acq: 18 Oct 2023 22:27

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:188 | Resp: | 304698   |
| Ion Ratio   | Lower | Upper    |
| 188         | 100   |          |
| 94          | 9.2   | 8.0 12.0 |
| 80          | 9.5   | 8.3 12.5 |

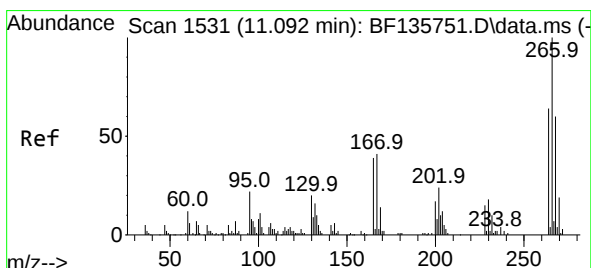
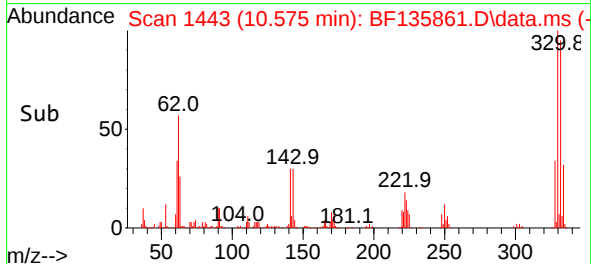
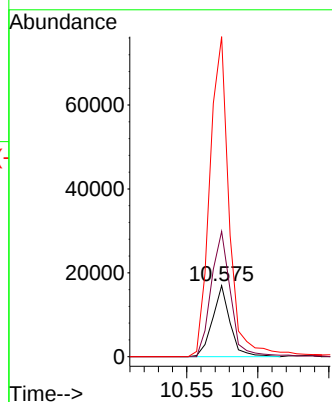
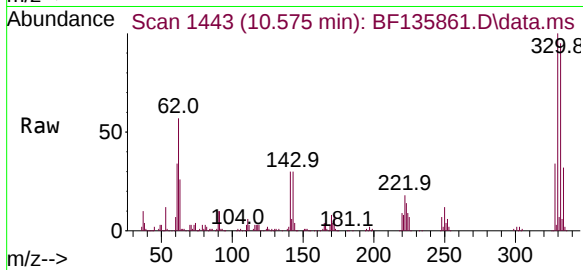




#67  
4-Bromophenyl-phenylether  
Concen: 4.761 ng  
RT: 10.575 min Scan# 1484  
Delta R.T. -0.247 min  
Lab File: BF135861.D  
Acq: 18 Oct 2023 22:27

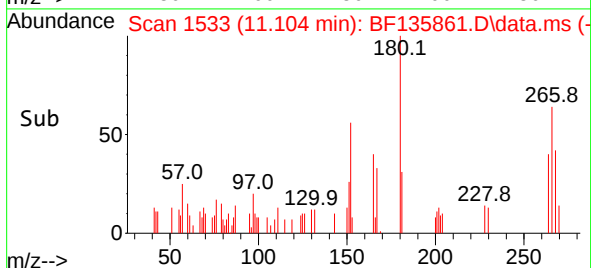
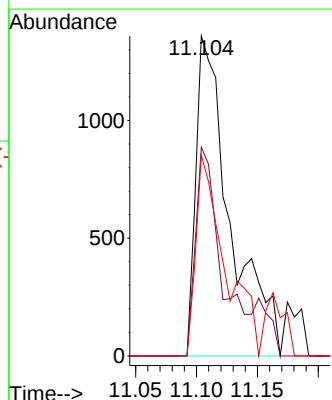
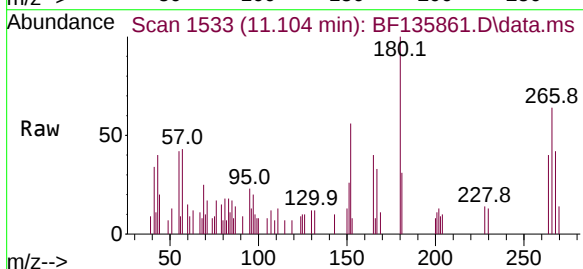
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-218

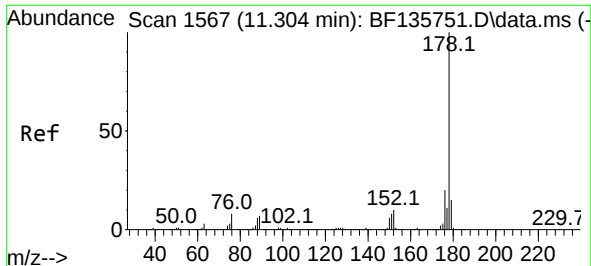
Tgt Ion:248 Resp: 14563  
Ion Ratio Lower Upper  
248 100  
250 176.2 78.0 117.0#  
141 449.9 59.0 88.6#



#70  
Pentachlorophenol  
Concen: 2.163 ng  
RT: 11.104 min Scan# 1533  
Delta R.T. 0.012 min  
Lab File: BF135861.D  
Acq: 18 Oct 2023 22:27

Tgt Ion:266 Resp: 2657  
Ion Ratio Lower Upper  
266 100  
268 65.3 47.7 71.5  
264 62.8 51.4 77.2

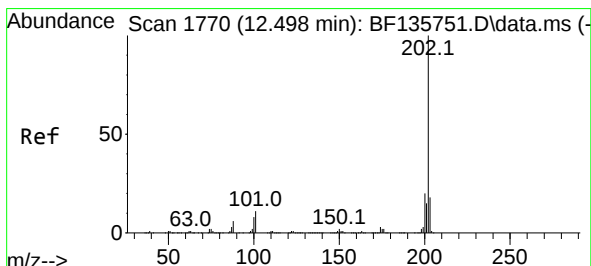
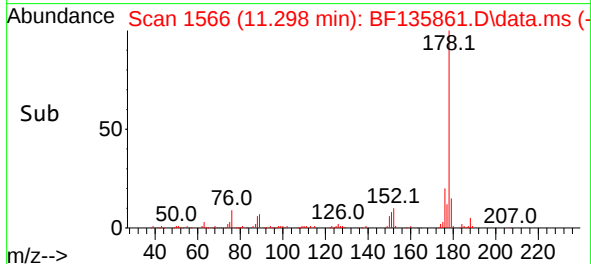
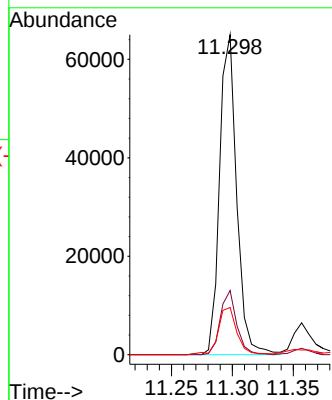
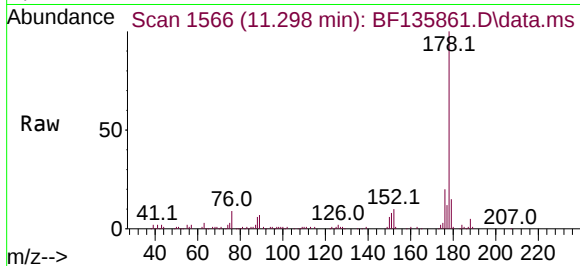




#71  
Phenanthrene  
Concen: 4.356 ng  
RT: 11.298 min Scan# 1566  
Delta R.T. -0.006 min  
Lab File: BF135861.D  
Acq: 18 Oct 2023 22:27

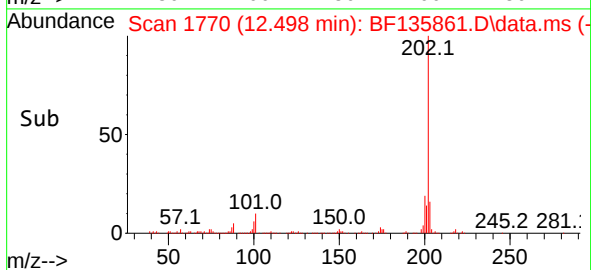
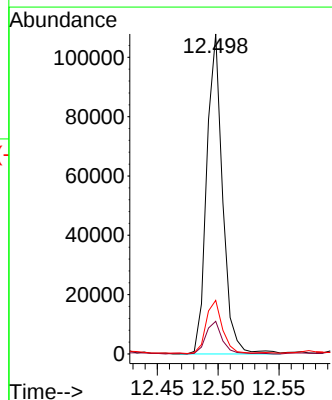
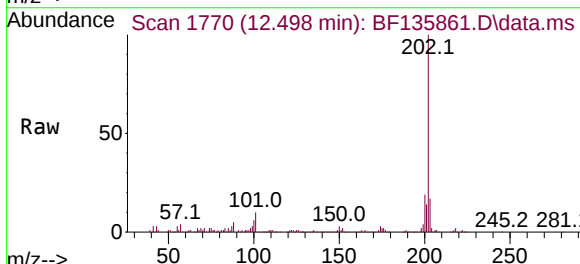
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-218

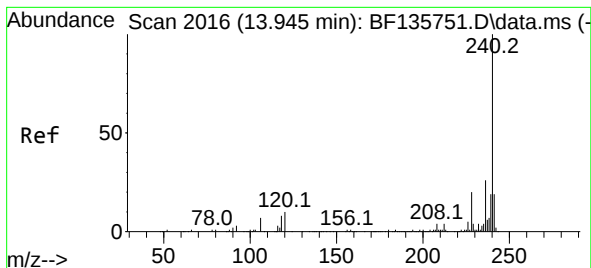
Tgt Ion:178 Resp: 63585  
Ion Ratio Lower Upper  
178 100  
176 20.0 16.0 24.0  
179 14.8 12.2 18.4



#75  
Fluoranthene  
Concen: 6.053 ng  
RT: 12.498 min Scan# 1770  
Delta R.T. -0.006 min  
Lab File: BF135861.D  
Acq: 18 Oct 2023 22:27

Tgt Ion:202 Resp: 98063  
Ion Ratio Lower Upper  
202 100  
101 10.2 0.0 31.5  
203 16.8 0.0 38.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.939 min Scan# 2016

Delta R.T. -0.012 min

Lab File: BF135861.D

Acq: 18 Oct 2023 22:27

Instrument :

BNA\_F

ClientSampleId :

VNJ-218

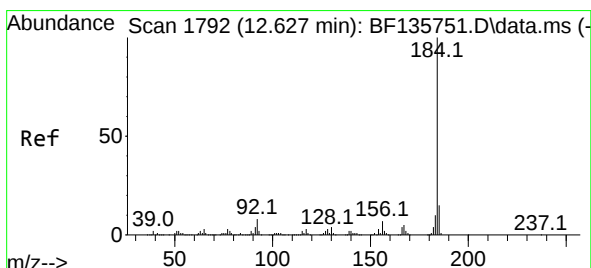
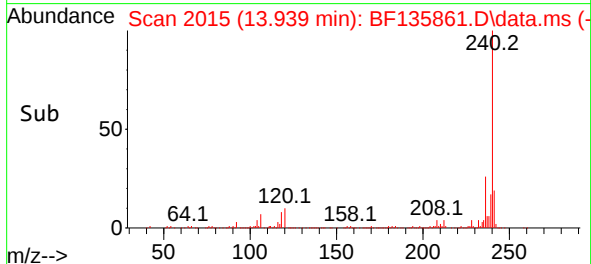
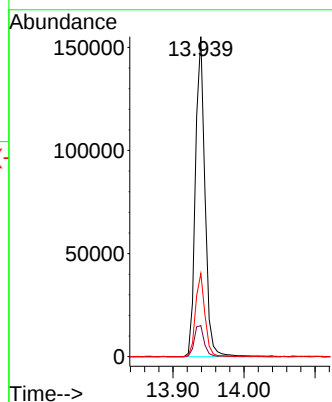
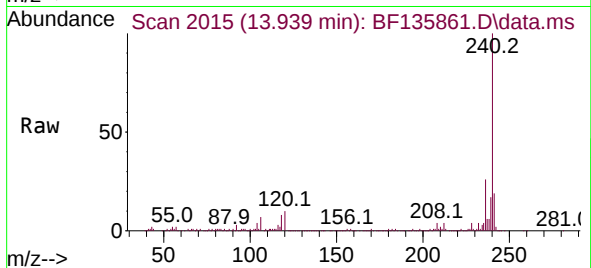
Tgt Ion:240 Resp: 145432

Ion Ratio Lower Upper

240 100

120 9.7 8.2 12.2

236 26.0 21.2 31.8



#77

Benzidine

Concen: 3.781 ng

RT: 12.869 min Scan# 1833

Delta R.T. 0.235 min

Lab File: BF135861.D

Acq: 18 Oct 2023 22:27

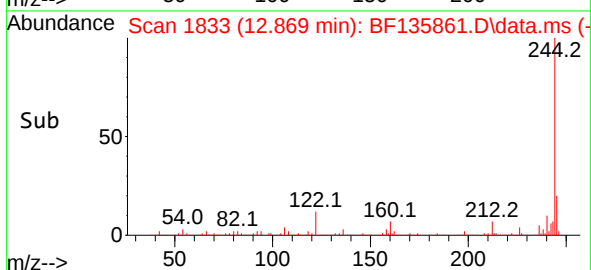
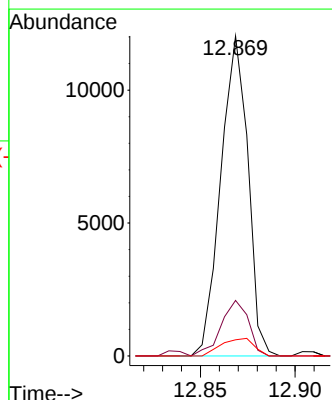
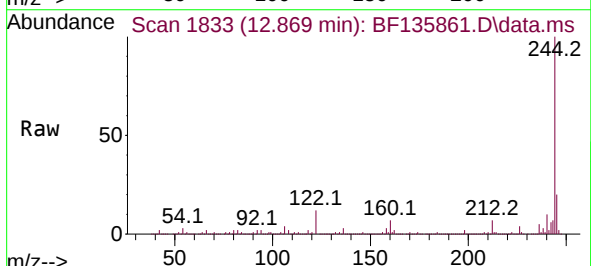
Tgt Ion:184 Resp: 11998

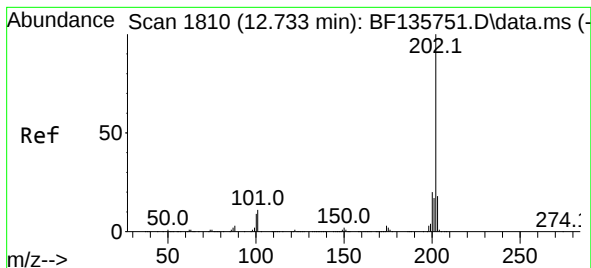
Ion Ratio Lower Upper

184 100

185 17.3 12.0 18.0

183 5.1 8.2 12.2#





#78

Pyrene

Concen: 7.792 ng

RT: 12.727 min Scan# 1809

Delta R.T. -0.006 min

Lab File: BF135861.D

Acq: 18 Oct 2023 22:27

Instrument :

BNA\_F

ClientSampleId :

VNJ-218

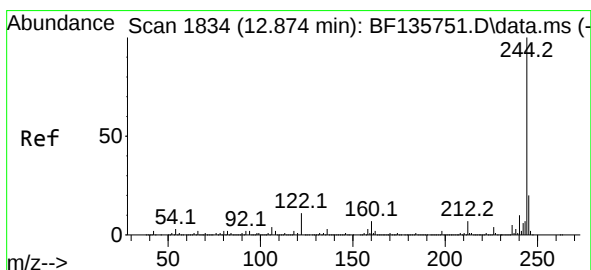
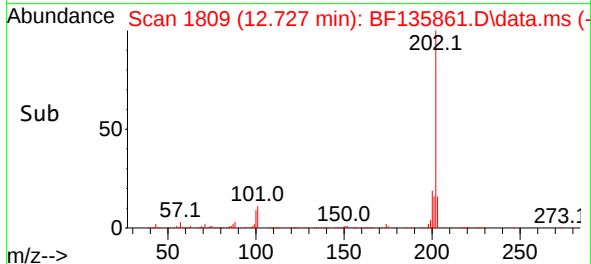
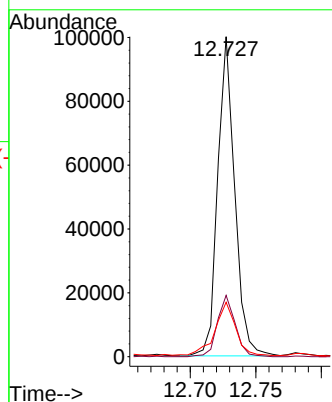
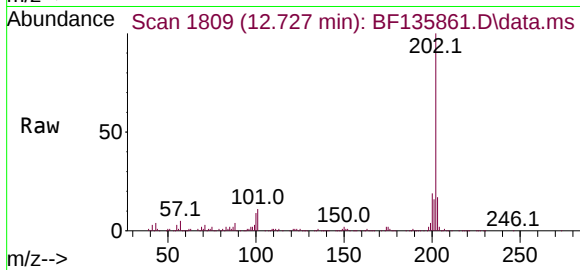
Tgt Ion:202 Resp: 90051

Ion Ratio Lower Upper

202 100

200 19.2 16.1 24.1

203 17.0 14.2 21.2



#79

Terphenyl-d14

Concen: 119.648 ng

RT: 12.869 min Scan# 1833

Delta R.T. -0.012 min

Lab File: BF135861.D

Acq: 18 Oct 2023 22:27

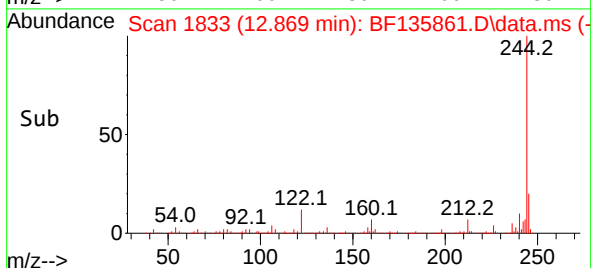
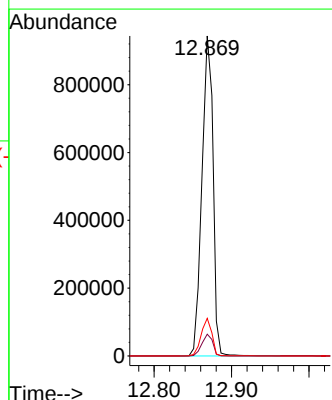
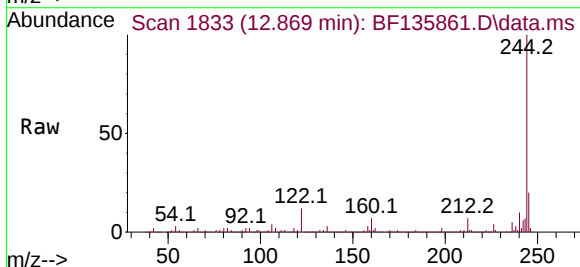
Tgt Ion:244 Resp: 939601

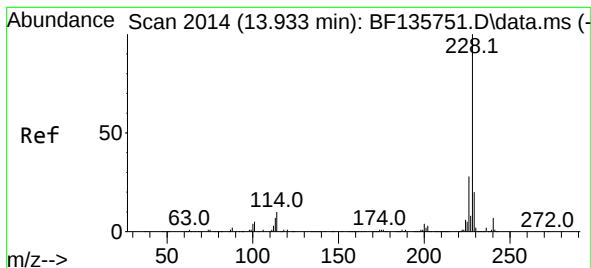
Ion Ratio Lower Upper

244 100

212 6.8 5.6 8.4

122 11.7 9.0 13.6





#81

Benzo(a)anthracene

Concen: 2.276 ng

RT: 13.927 min Scan# 2013

Delta R.T. -0.012 min

Lab File: BF135861.D

Acq: 18 Oct 2023 22:27

Instrument :

BNA\_F

ClientSampleId :

VNJ-218

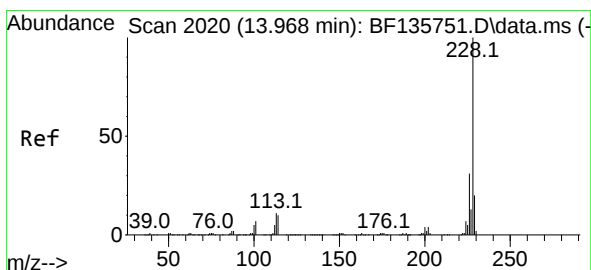
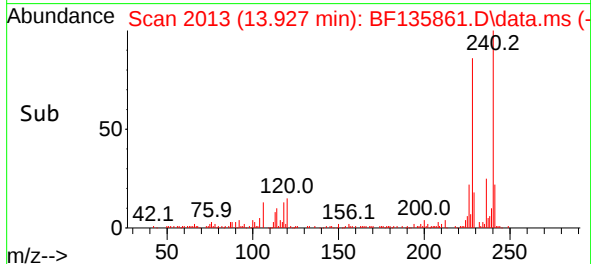
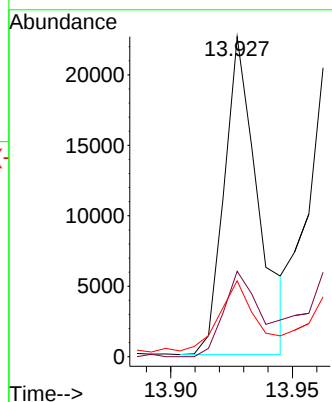
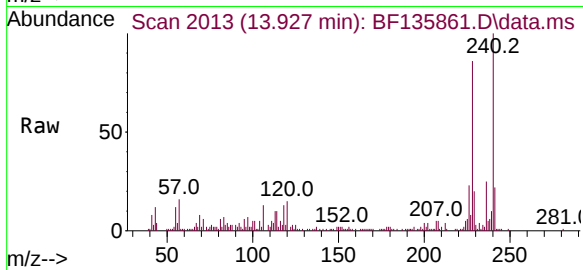
Tgt Ion:228 Resp: 21739

Ion Ratio Lower Upper

228 100

226 26.7 22.2 33.2

229 23.7 16.1 24.1



#83

Chrysene

Concen: 2.948 ng

RT: 13.968 min Scan# 2020

Delta R.T. -0.006 min

Lab File: BF135861.D

Acq: 18 Oct 2023 22:27

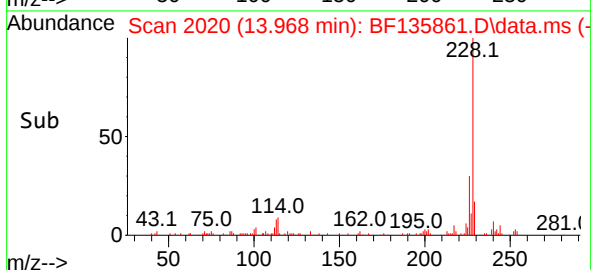
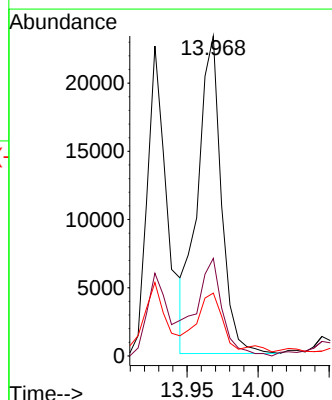
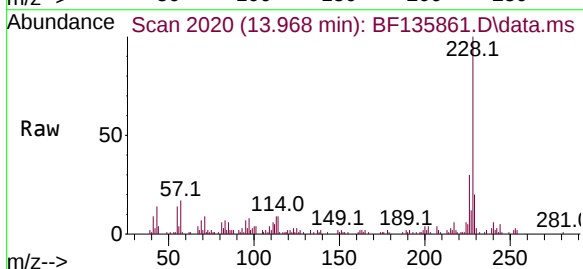
Tgt Ion:228 Resp: 27276

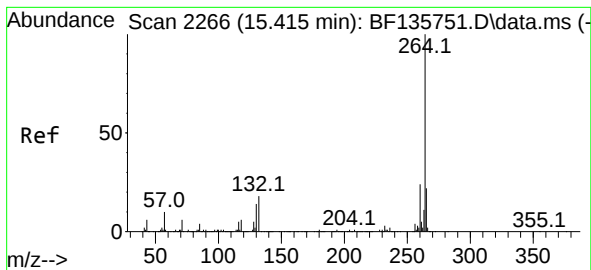
Ion Ratio Lower Upper

228 100

226 30.5 24.4 36.6

229 19.7 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.415 min Scan# 2194

Delta R.T. -0.006 min

Lab File: BF135861.D

Acq: 18 Oct 2023 22:27

Instrument :

BNA\_F

ClientSampleId :

VNJ-218

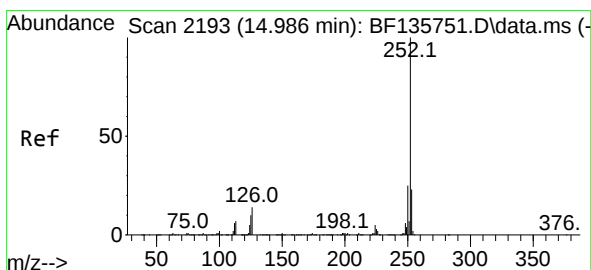
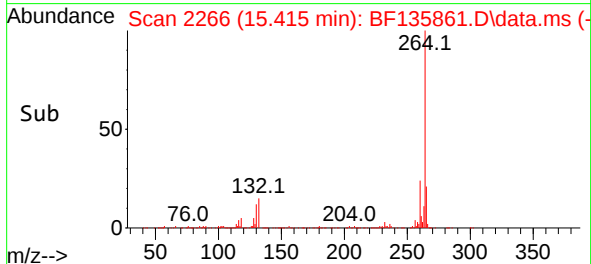
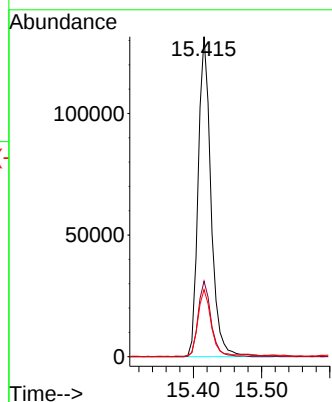
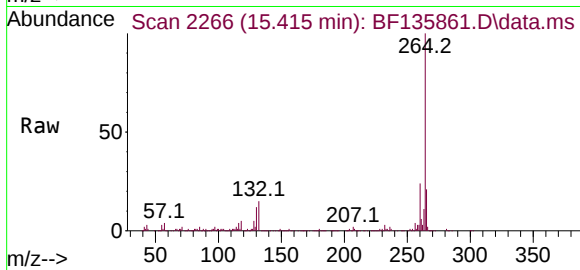
Tgt Ion:264 Resp: 172164

Ion Ratio Lower Upper

264 100

260 23.6 19.2 28.8

265 21.0 17.4 26.2



#88

Benzo(b)fluoranthene

Concen: 4.073 ng

RT: 14.992 min Scan# 2194

Delta R.T. -0.000 min

Lab File: BF135861.D

Acq: 18 Oct 2023 22:27

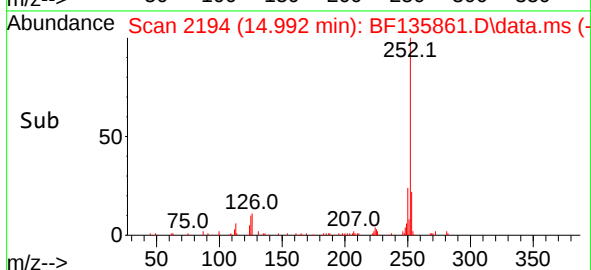
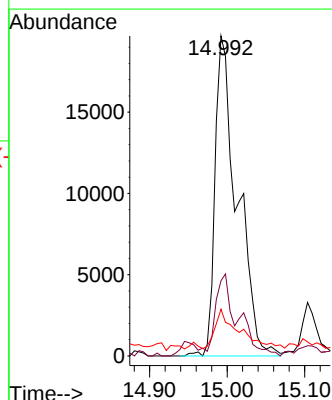
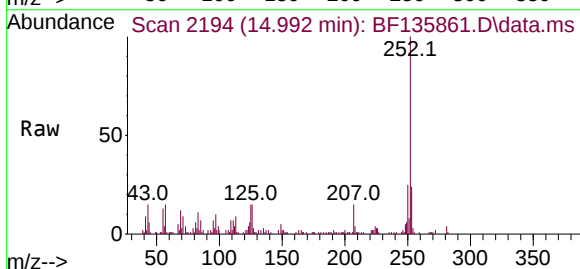
Tgt Ion:252 Resp: 39248

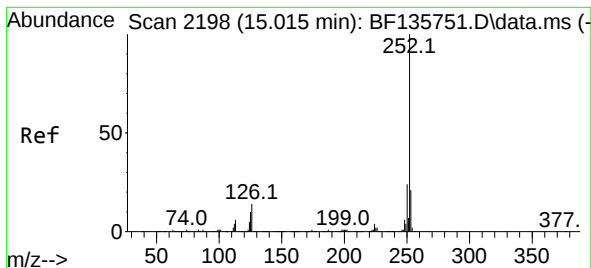
Ion Ratio Lower Upper

252 100

253 23.5 18.2 27.2

125 14.6 8.2 12.2#





#89

Benzo(k)fluoranthene

Concen: 4.196 ng

RT: 14.992 min Scan# 21

Delta R.T. -0.030 min

Lab File: BF135861.D

Acq: 18 Oct 2023 22:27

Instrument :

BNA\_F

ClientSampleId :

VNJ-218

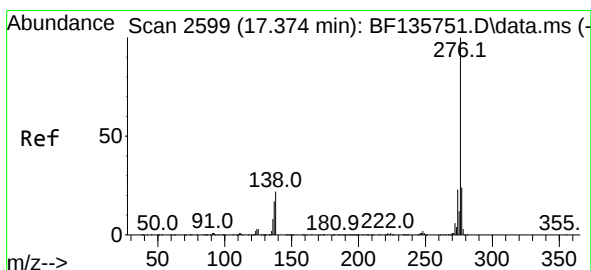
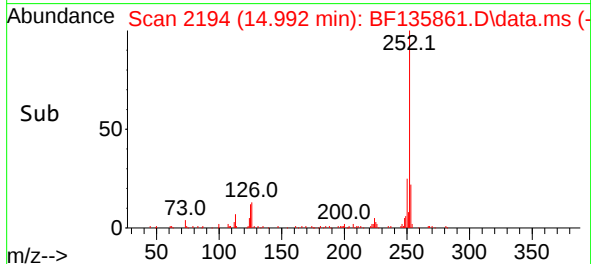
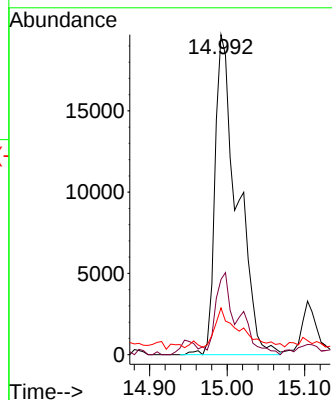
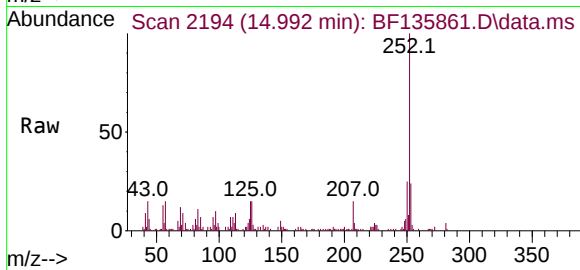
Tgt Ion:252 Resp: 39248

Ion Ratio Lower Upper

252 100

253 23.5 17.4 26.0

125 14.6 8.3 12.5#



#92

Benzo(g,h,i)perylene

Concen: 2.115 ng

RT: 17.404 min Scan# 2604

Delta R.T. 0.018 min

Lab File: BF135861.D

Acq: 18 Oct 2023 22:27

Tgt Ion:276 Resp: 16711

Ion Ratio Lower Upper

276 100

277 27.5 19.4 29.2

138 22.6 17.3 25.9

