

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF032025\  
 Data File : BF142021.D  
 Acq On : 20 Mar 2025 20:05  
 Operator : RC/JU  
 Sample : Q1607-01 2X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-031925

Quant Time: Mar 21 01:09:12 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF031025.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 10 15:46:22 2025  
 Response via : Initial Calibration

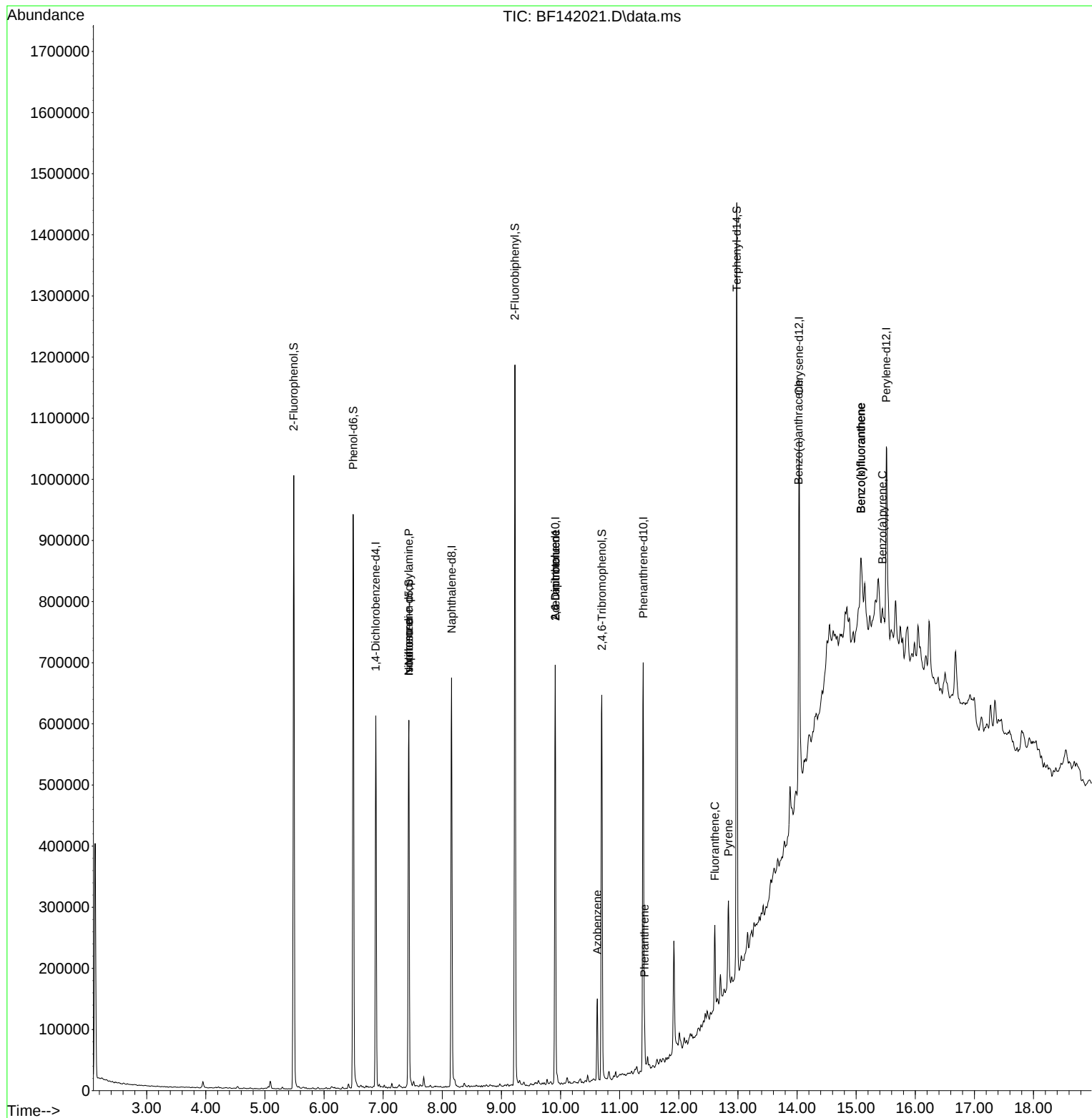
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.875  | 152  | 127761   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.157  | 136  | 435364   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.910  | 164  | 200221   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.398 | 188  | 343081   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.033 | 240  | 272773   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.510 | 264  | 192911   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.487  | 112  | 381002   | 49.771 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.493  | 99   | 441043   | 45.251 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.434  | 82   | 271902   | 35.147 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.698 | 330  | 114705   | 45.158 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.228  | 172  | 514335   | 39.067 | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.980 | 244  | 625805   | 33.919 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.434  | 70   | 37482    | 5.985  | ng    | # 79     |
| 25) Isophorone                | 7.434  | 82   | 263139   | 19.242 | ng    | # 64     |
| 51) 2,6-Dinitrotoluene        | 9.910  | 165  | 26514    | 9.082  | ng    | # 23     |
| 57) 2,4-Dinitrotoluene        | 9.910  | 165  | 26514    | 6.954  | ng    | # 24     |
| 63) Azobenzene                | 10.622 | 77   | 33287    | 2.561  | ng    | # 1      |
| 71) Phenanthrene              | 11.422 | 178  | 38099    | 2.056  | ng    | 98       |
| 75) Fluoranthene              | 12.610 | 202  | 80860    | 4.114  | ng    | 100      |
| 78) Pyrene                    | 12.839 | 202  | 82714    | 3.506  | ng    | 98       |
| 81) Benzo(a)anthracene        | 14.027 | 228  | 37100    | 2.073  | ng    | # 85     |
| 88) Benzo(b)fluoranthene      | 15.080 | 252  | 47184    | 3.569  | ng    | # 62     |
| 89) Benzo(k)fluoranthene      | 15.080 | 252  | 47184    | 4.170  | ng    | # 63     |
| 90) Benzo(a)pyrene            | 15.445 | 252  | 23421    | 2.264  | ng    | # 57     |
| -----                         |        |      |          |        |       |          |

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

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Sample : Q1607-01 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-031925

Quant Time: Mar 21 01:09:12 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF031025.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Mar 10 15:46:22 2025  
Response via : Initial Calibration

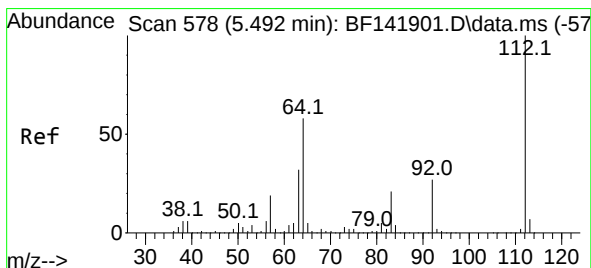
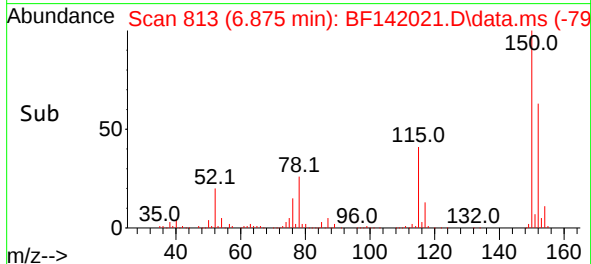
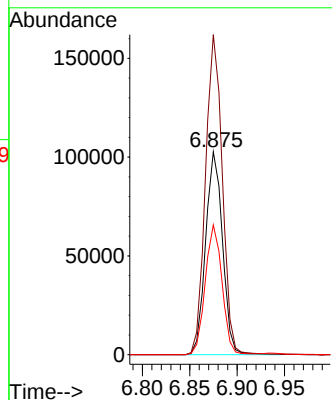
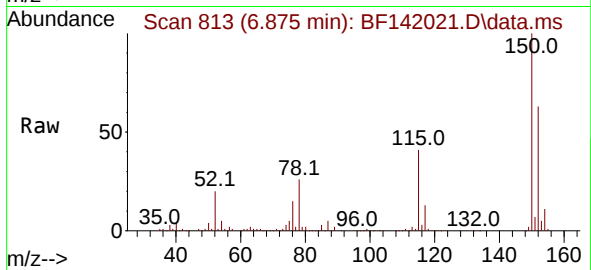




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.875 min Scan# 814  
Delta R.T. -0.006 min  
Lab File: BF142021.D  
Acq: 20 Mar 2025 20:05

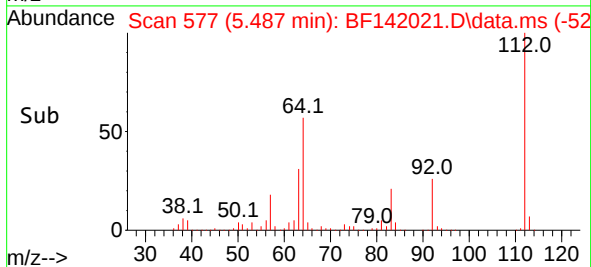
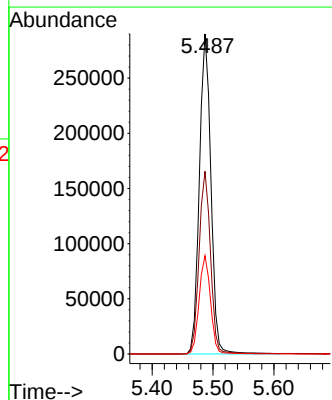
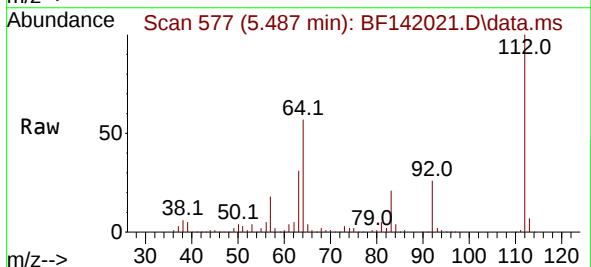
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-031925

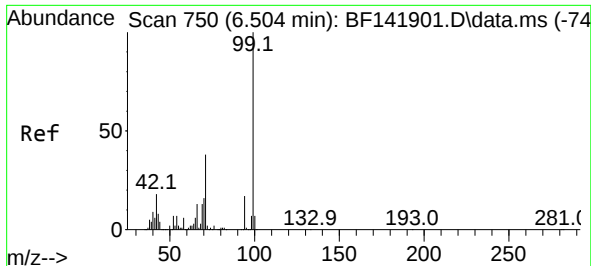
Tgt Ion:152 Resp: 127761  
Ion Ratio Lower Upper  
152 100  
150 157.7 127.4 191.2  
115 64.0 51.9 77.9



#5  
2-Fluorophenol  
Concen: 49.771 ng  
RT: 5.487 min Scan# 577  
Delta R.T. -0.006 min  
Lab File: BF142021.D  
Acq: 20 Mar 2025 20:05

Tgt Ion:112 Resp: 381002  
Ion Ratio Lower Upper  
112 100  
64 57.1 46.5 69.7  
63 30.7 25.4 38.2

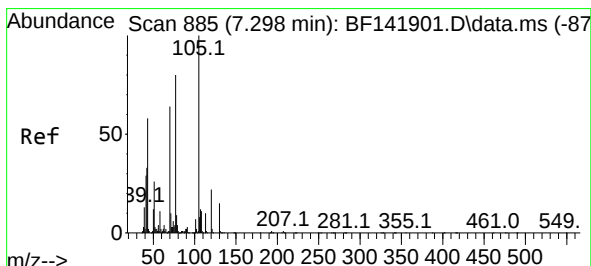
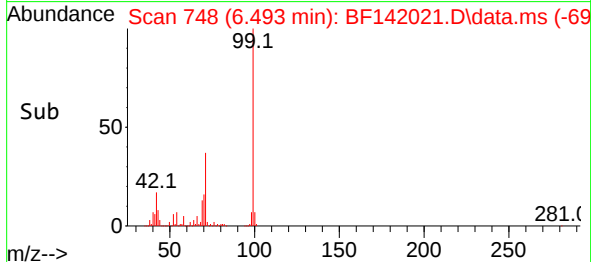
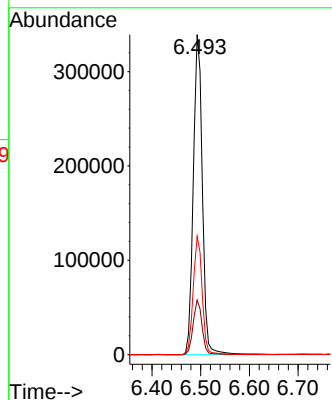
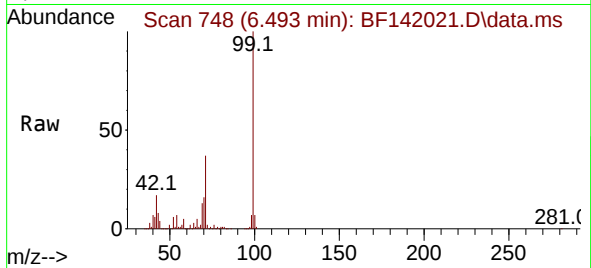




#7  
Phenol-d6  
Concen: 45.251 ng  
RT: 6.493 min Scan# 74  
Delta R.T. -0.012 min  
Lab File: BF142021.D  
Acq: 20 Mar 2025 20:05

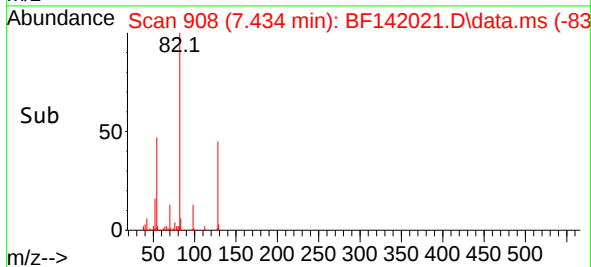
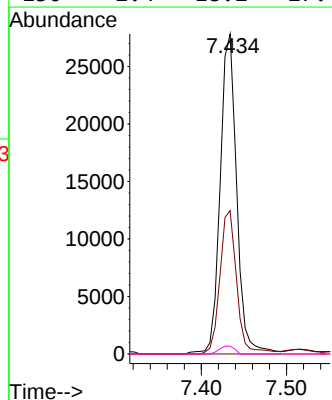
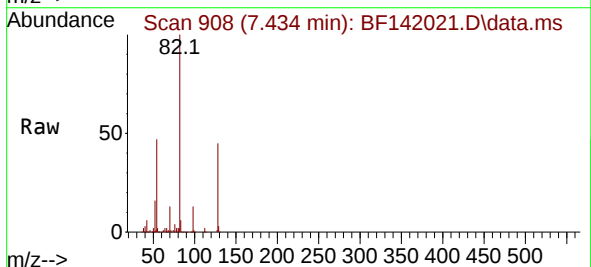
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-031925

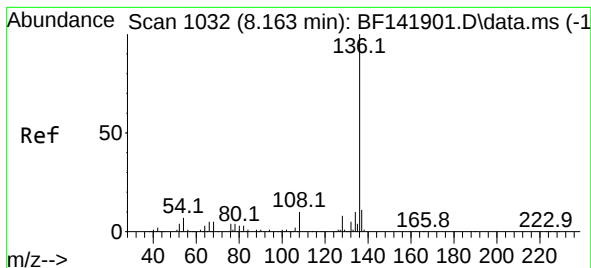
Tgt Ion: 99 Resp: 441043  
Ion Ratio Lower Upper  
99 100  
42 17.0 14.6 21.8  
71 37.0 30.8 46.2



#19  
n-Nitroso-di-n-propylamine  
Concen: 5.985 ng  
RT: 7.434 min Scan# 908  
Delta R.T. 0.135 min  
Lab File: BF142021.D  
Acq: 20 Mar 2025 20:05

Tgt Ion: 70 Resp: 37482  
Ion Ratio Lower Upper  
70 100  
42 44.8 41.4 62.0  
101 0.0 8.2 12.2#  
130 2.4 18.2 27.4#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.157 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF142021.D

Acq: 20 Mar 2025 20:05

Instrument :

BNA\_F

ClientSampleId :

OR-03-031925

Tgt Ion:136 Resp: 435364

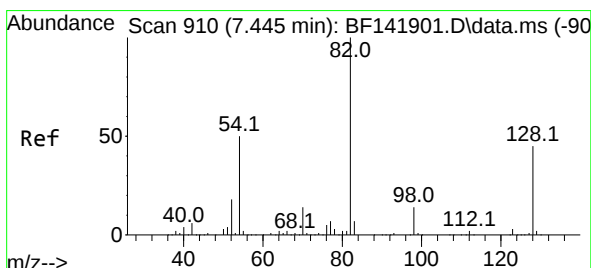
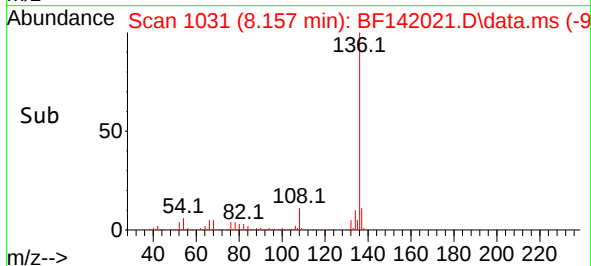
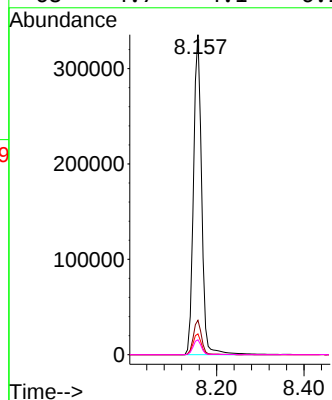
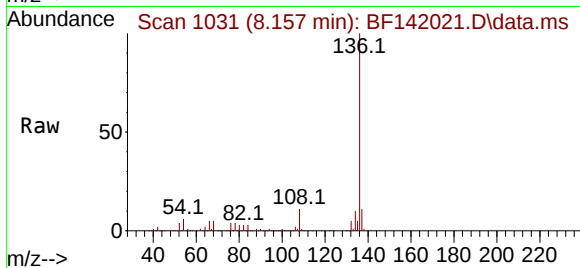
Ion Ratio Lower Upper

136 100

137 10.8 8.8 13.2

54 6.5 5.8 8.8

68 4.7 4.1 6.1



#23

Nitrobenzene-d5

Concen: 35.147 ng

RT: 7.434 min Scan# 908

Delta R.T. -0.012 min

Lab File: BF142021.D

Acq: 20 Mar 2025 20:05

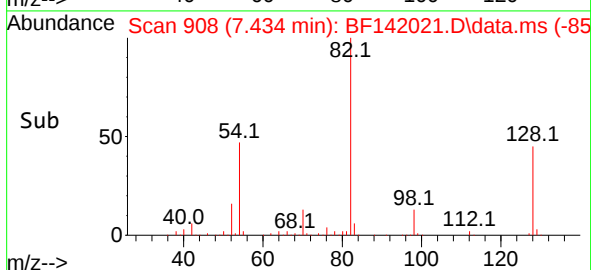
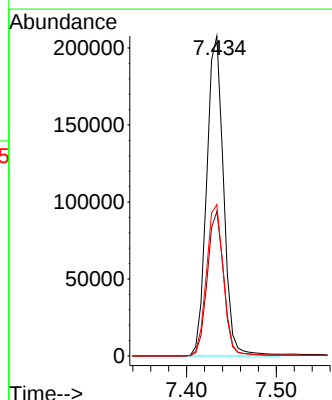
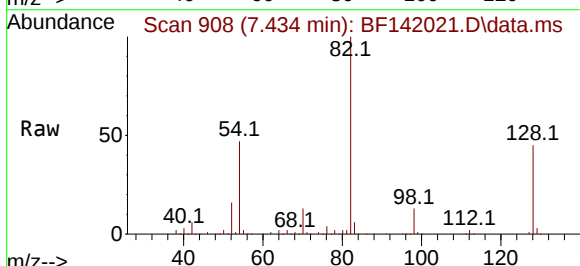
Tgt Ion: 82 Resp: 271902

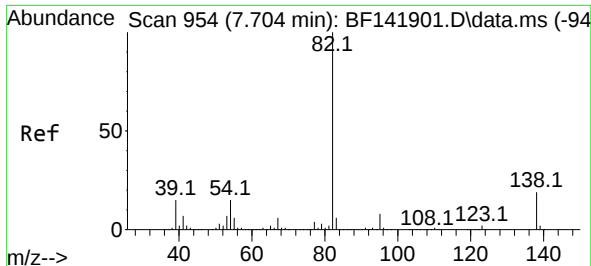
Ion Ratio Lower Upper

82 100

128 45.1 36.0 54.0

54 47.3 39.6 59.4

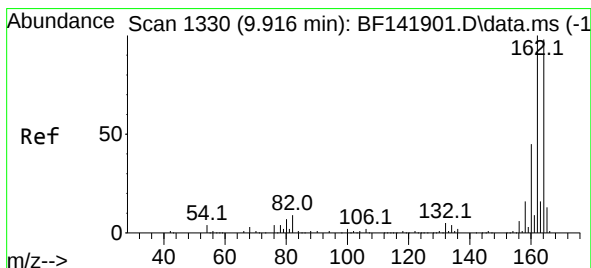
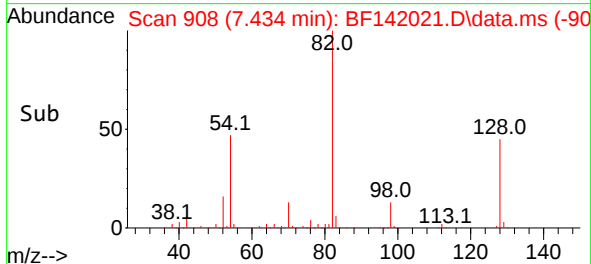
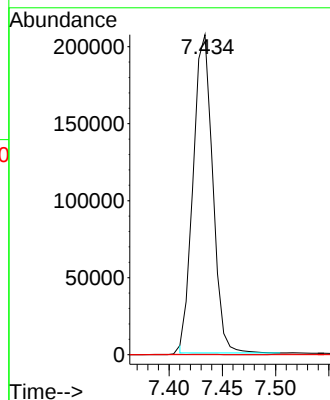
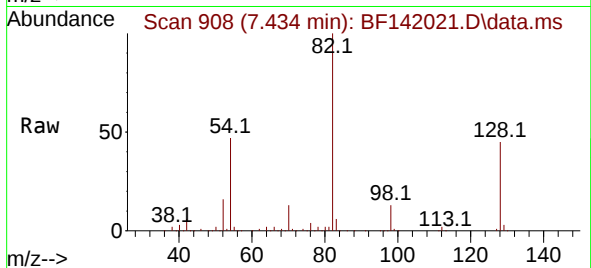




#25  
Isophorone  
Concen: 19.242 ng  
RT: 7.434 min Scan# 90  
Delta R.T. -0.270 min  
Lab File: BF142021.D  
Acq: 20 Mar 2025 20:05

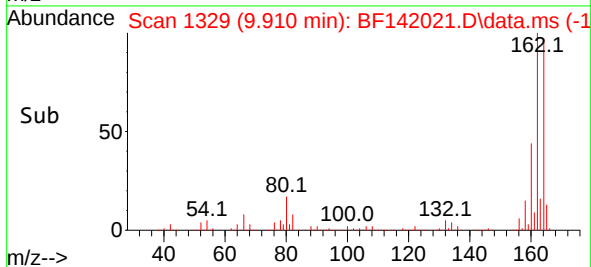
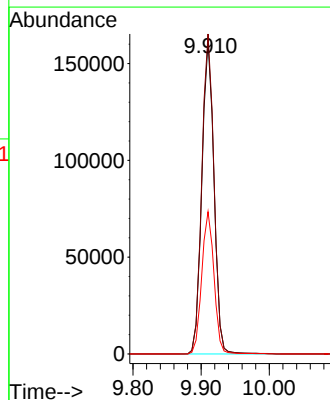
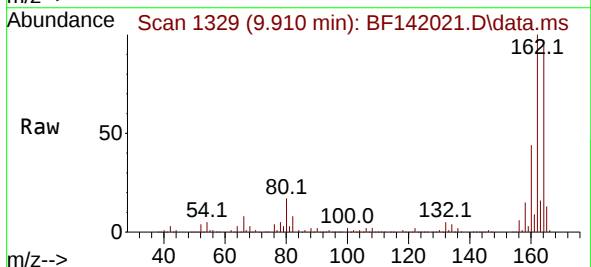
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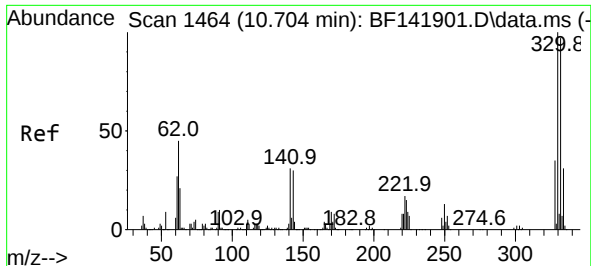
Tgt Ion: 82 Resp: 263139  
Ion Ratio Lower Upper  
82 100  
95 0.1 6.4 9.6#  
138 0.0 14.9 22.3#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.910 min Scan# 1329  
Delta R.T. -0.006 min  
Lab File: BF142021.D  
Acq: 20 Mar 2025 20:05

Tgt Ion:164 Resp: 200221  
Ion Ratio Lower Upper  
164 100  
162 102.6 81.8 122.6  
160 45.6 36.7 55.1

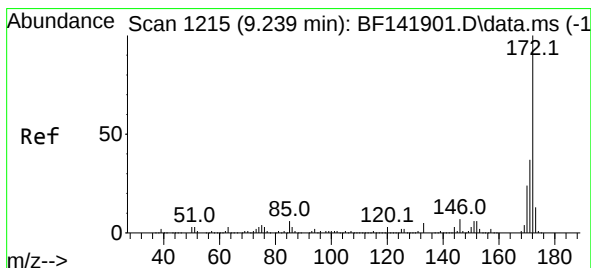
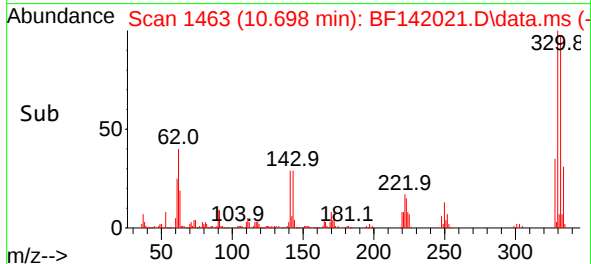
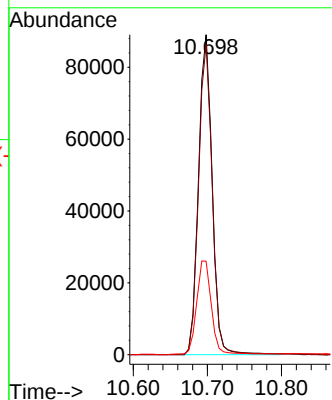
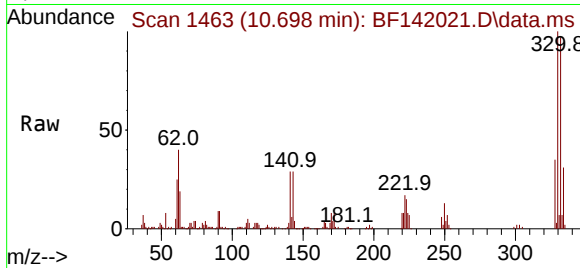




#42  
2,4,6-Tribromophenol  
Concen: 45.158 ng  
RT: 10.698 min Scan# 1463  
Delta R.T. -0.006 min  
Lab File: BF142021.D  
Acq: 20 Mar 2025 20:05

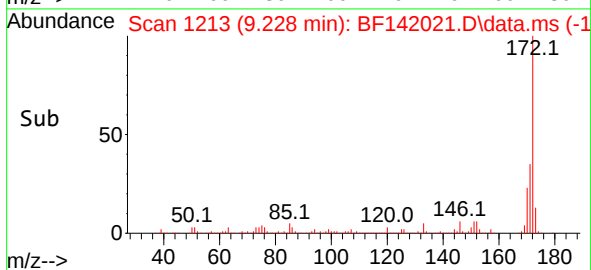
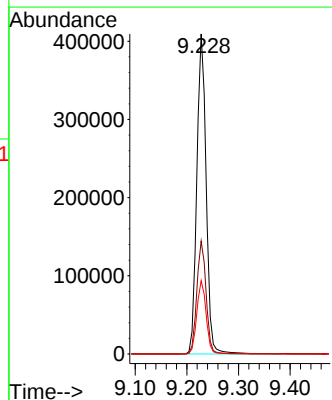
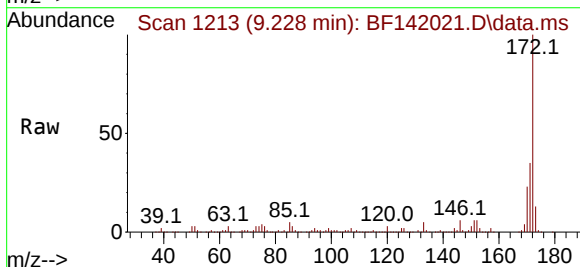
Instrument :  
BNA\_F  
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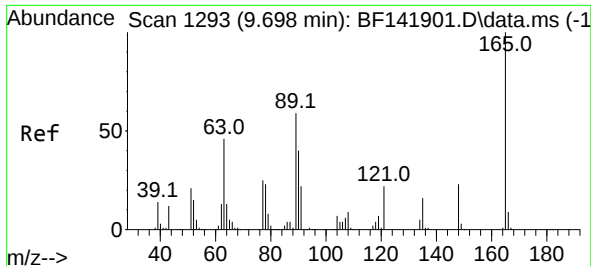
Tgt Ion:330 Resp: 114705  
Ion Ratio Lower Upper  
330 100  
332 97.1 77.6 116.4  
141 31.8 24.7 37.1



#45  
2-Fluorobiphenyl  
Concen: 39.067 ng  
RT: 9.228 min Scan# 1213  
Delta R.T. -0.012 min  
Lab File: BF142021.D  
Acq: 20 Mar 2025 20:05

Tgt Ion:172 Resp: 514335  
Ion Ratio Lower Upper  
172 100  
171 35.3 29.3 43.9  
170 22.9 19.4 29.0

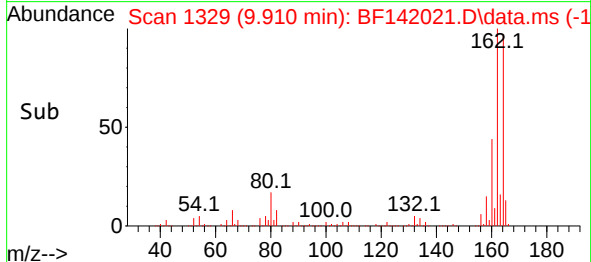
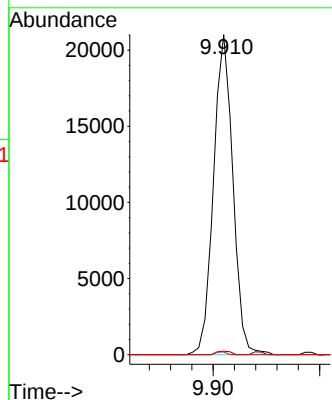
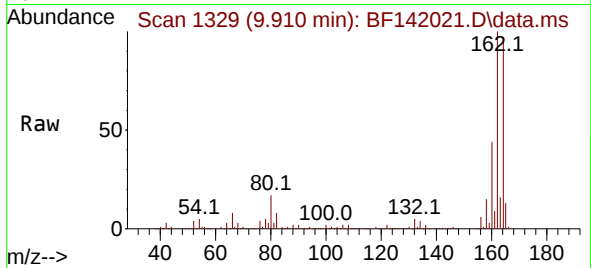




#51  
2,6-Dinitrotoluene  
Concen: 9.082 ng  
RT: 9.910 min Scan# 11  
Delta R.T. 0.212 min  
Lab File: BF142021.D  
Acq: 20 Mar 2025 20:05

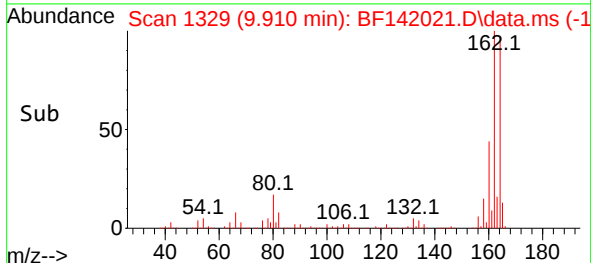
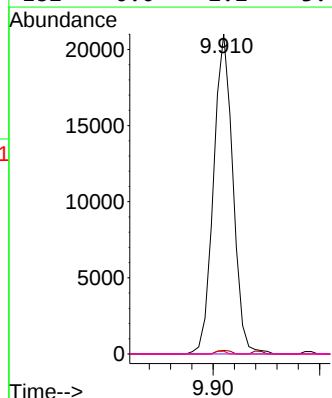
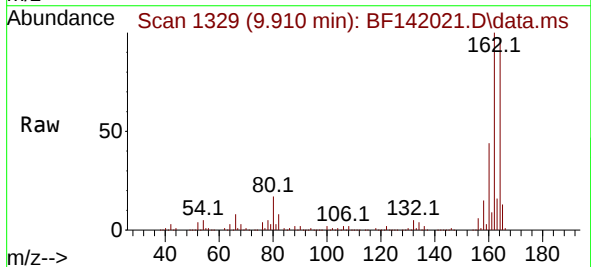
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-031925

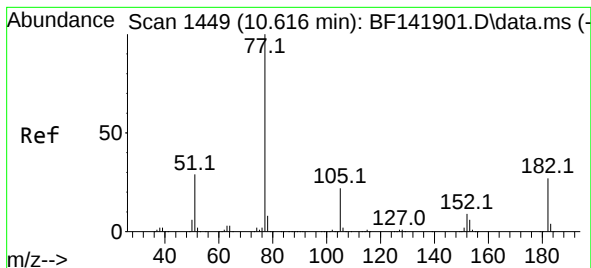
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Ion Ratio Lower Upper  
165 100  
63 1.1 47.0 70.4#  
89 0.9 47.4 71.2#



#57  
2,4-Dinitrotoluene  
Concen: 6.954 ng  
RT: 9.910 min Scan# 1329  
Delta R.T. -0.194 min  
Lab File: BF142021.D  
Acq: 20 Mar 2025 20:05

Tgt Ion:165 Resp: 26514  
Ion Ratio Lower Upper  
165 100  
63 1.1 35.4 53.2#  
89 0.9 56.6 84.8#  
182 0.0 2.2 3.4#





#63

Azobenzene

Concen: 2.561 ng

RT: 10.622 min Scan# 1449

Delta R.T. 0.006 min

Lab File: BF142021.D

Acq: 20 Mar 2025 20:05

Instrument :

BNA\_F

ClientSampleId :

OR-03-031925

Tgt Ion: 77 Resp: 33287

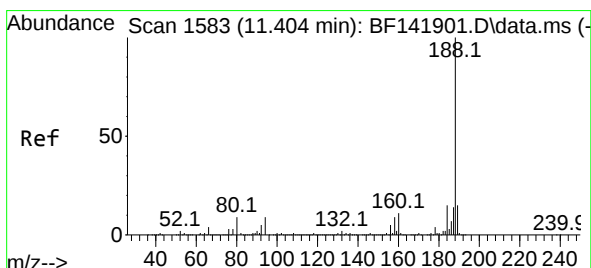
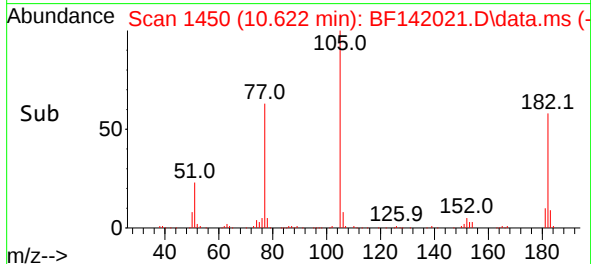
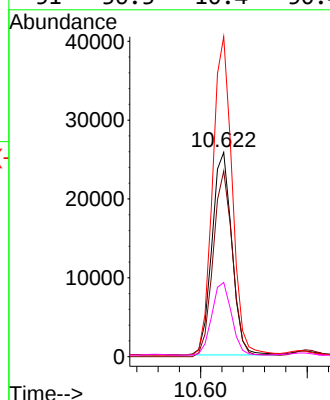
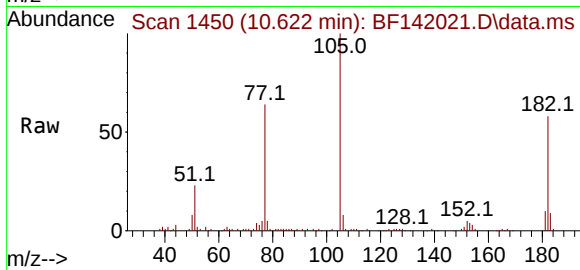
Ion Ratio Lower Upper

77 100

182 90.8 6.6 46.6#

105 156.6 1.3 41.3#

51 36.3 10.4 50.4



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.398 min Scan# 1582

Delta R.T. -0.006 min

Lab File: BF142021.D

Acq: 20 Mar 2025 20:05

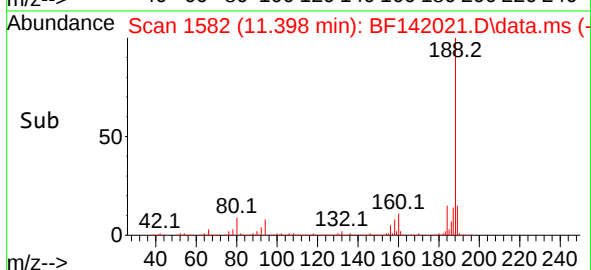
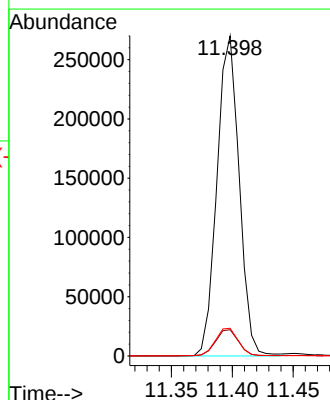
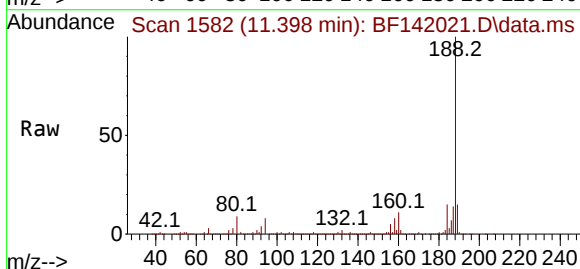
Tgt Ion:188 Resp: 343081

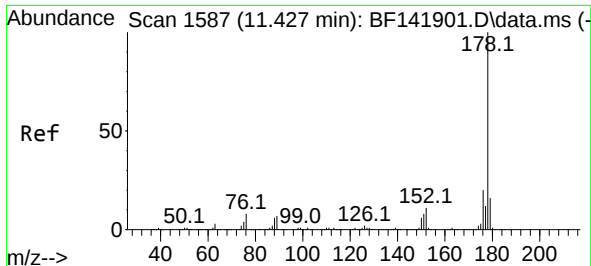
Ion Ratio Lower Upper

188 100

94 8.2 6.8 10.2

80 8.7 7.6 11.4

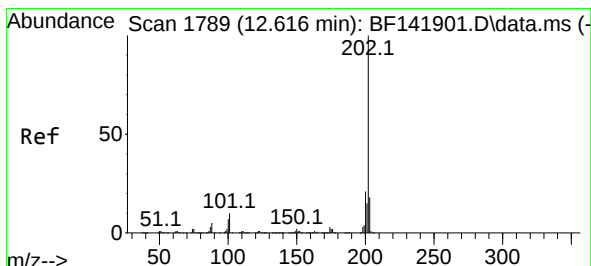
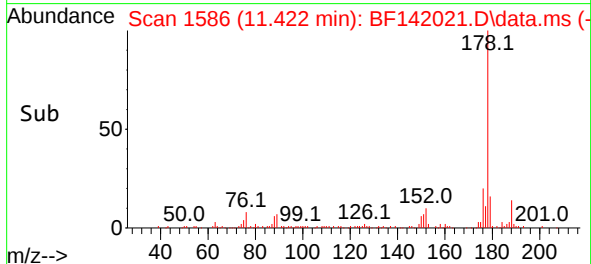
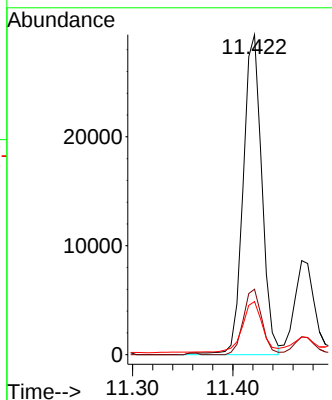
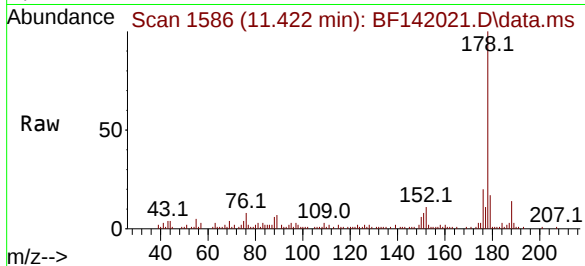




#71  
Phenanthrene  
Concen: 2.056 ng  
RT: 11.422 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF142021.D  
Acq: 20 Mar 2025 20:05

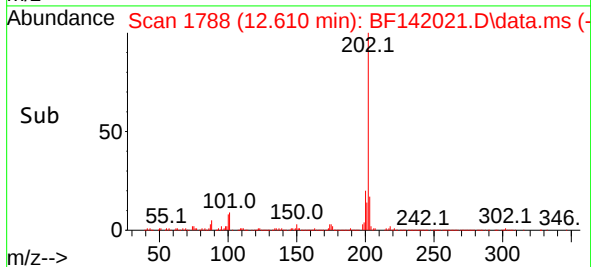
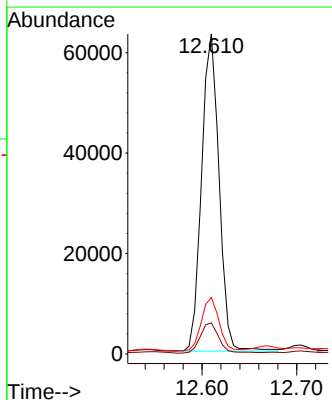
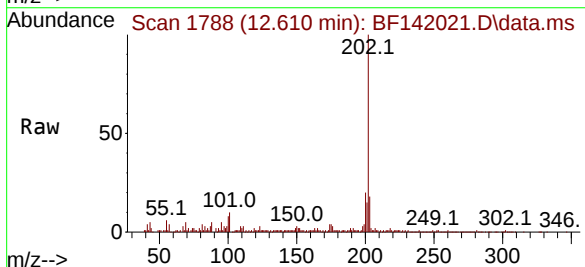
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-031925

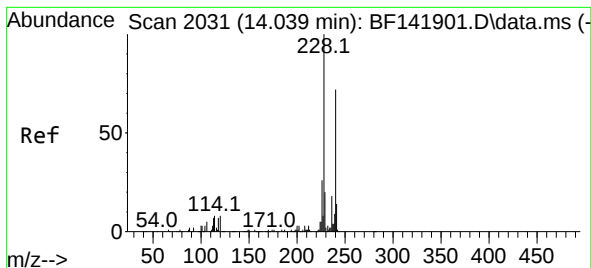
Tgt Ion:178 Resp: 38099  
Ion Ratio Lower Upper  
178 100  
176 20.5 15.8 23.8  
179 16.6 12.6 19.0



#75  
Fluoranthene  
Concen: 4.114 ng  
RT: 12.610 min Scan# 1788  
Delta R.T. -0.006 min  
Lab File: BF142021.D  
Acq: 20 Mar 2025 20:05

Tgt Ion:202 Resp: 80860  
Ion Ratio Lower Upper  
202 100  
101 9.7 0.0 29.7  
203 17.7 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2031

Delta R.T. -0.006 min

Lab File: BF142021.D

Acq: 20 Mar 2025 20:05

Instrument :

BNA\_F

ClientSampleId :

OR-03-031925

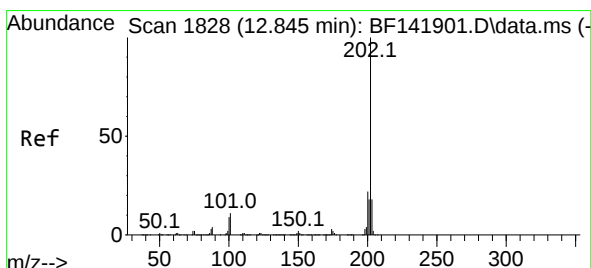
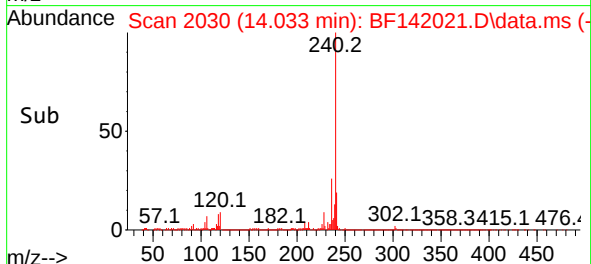
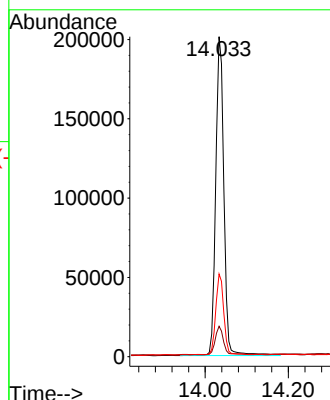
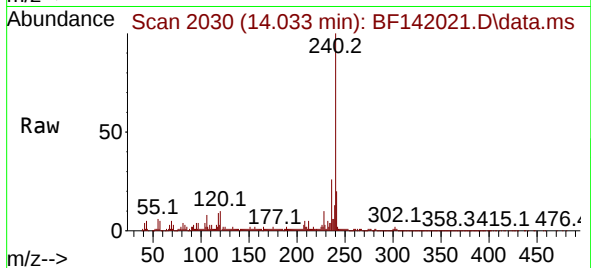
Tgt Ion:240 Resp: 272773

Ion Ratio Lower Upper

240 100

120 9.5 8.4 12.6

236 25.9 20.5 30.7



#78

Pyrene

Concen: 3.506 ng

RT: 12.839 min Scan# 1827

Delta R.T. -0.006 min

Lab File: BF142021.D

Acq: 20 Mar 2025 20:05

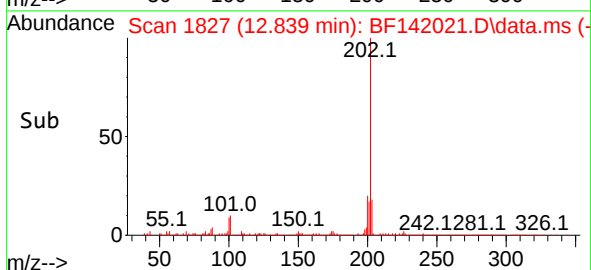
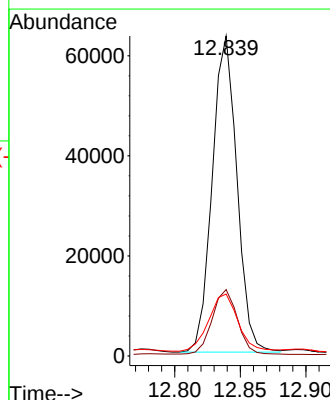
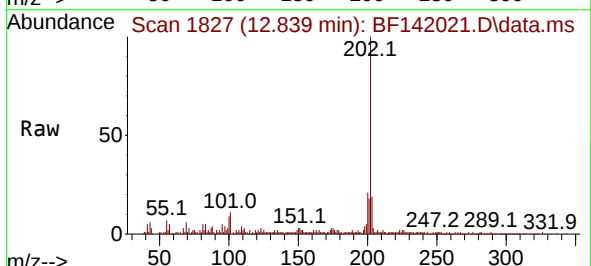
Tgt Ion:202 Resp: 82714

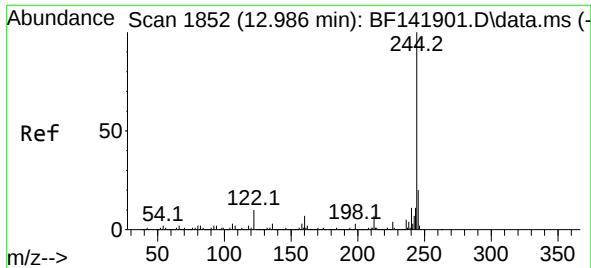
Ion Ratio Lower Upper

202 100

200 20.8 17.3 25.9

203 19.4 14.4 21.6

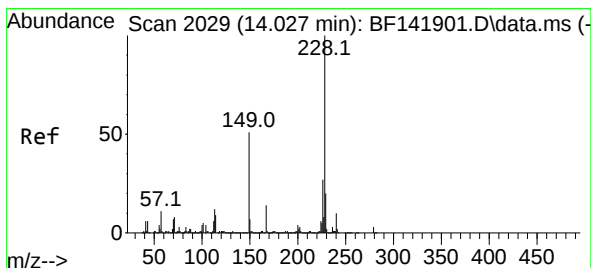
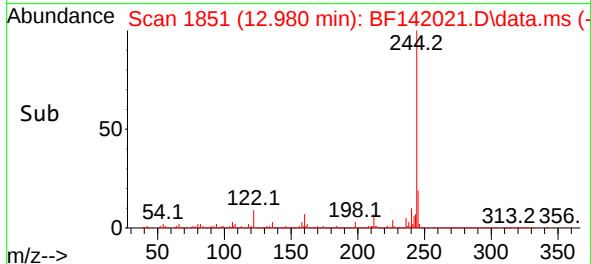
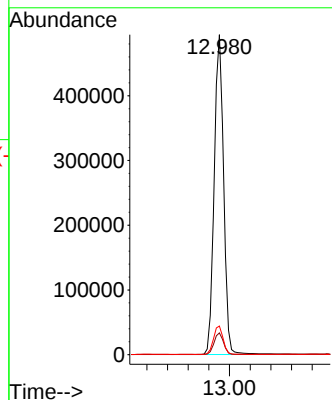
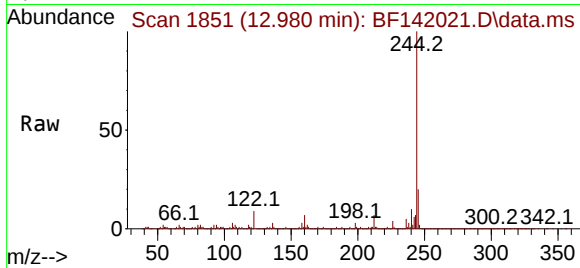




#79  
 Terphenyl-d14  
 Concen: 33.919 ng  
 RT: 12.980 min Scan# 1851  
 Delta R.T. -0.006 min  
 Lab File: BF142021.D  
 Acq: 20 Mar 2025 20:05

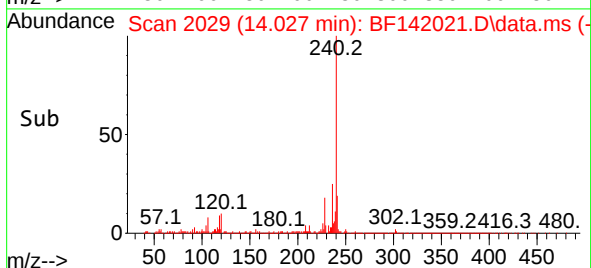
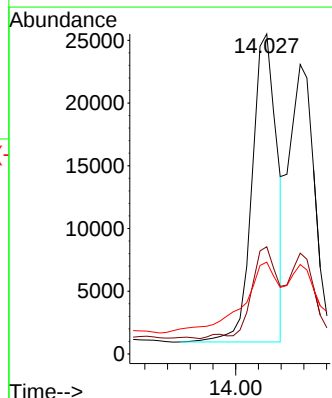
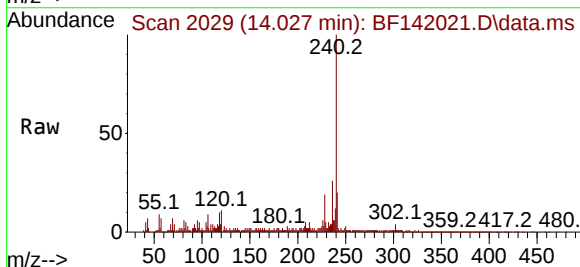
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-031925

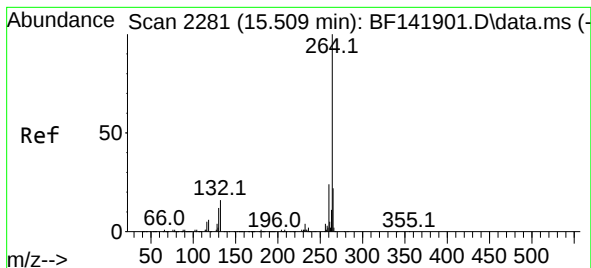
Tgt Ion:244 Resp: 625805  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 6.0 9.0  
 122 8.9 7.7 11.5



#81  
 Benzo(a)anthracene  
 Concen: 2.073 ng  
 RT: 14.027 min Scan# 2029  
 Delta R.T. 0.000 min  
 Lab File: BF142021.D  
 Acq: 20 Mar 2025 20:05

Tgt Ion:228 Resp: 37100  
 Ion Ratio Lower Upper  
 228 100  
 226 33.5 21.8 32.8#  
 229 28.7 16.0 24.0#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.510 min Scan# 2281

Delta R.T. 0.000 min

Lab File: BF142021.D

Acq: 20 Mar 2025 20:05

Instrument :

BNA\_F

ClientSampleId :

OR-03-031925

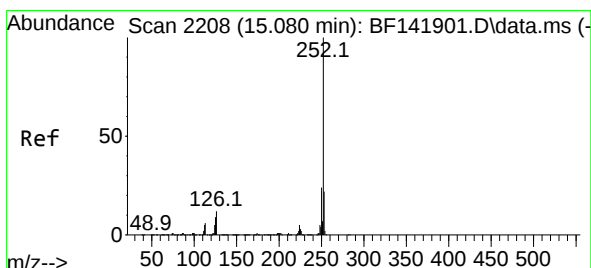
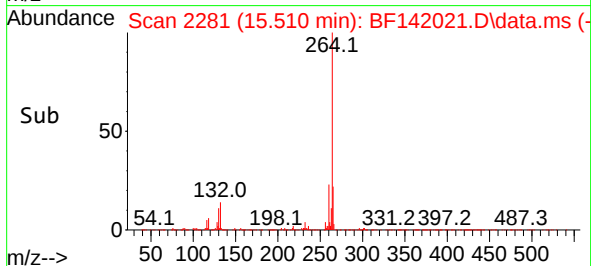
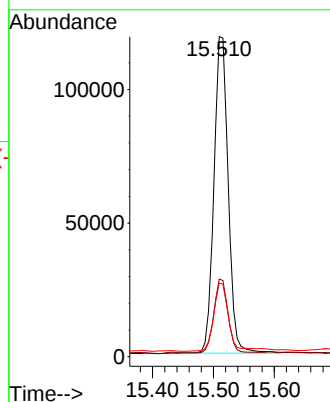
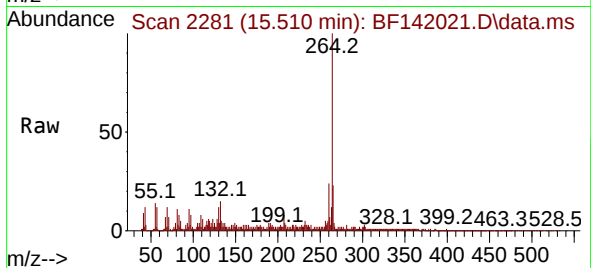
Tgt Ion:264 Resp: 192911

Ion Ratio Lower Upper

264 100

260 24.3 19.1 28.7

265 23.0 17.5 26.3



#88

Benzo(b)fluoranthene

Concen: 3.569 ng

RT: 15.080 min Scan# 2208

Delta R.T. 0.000 min

Lab File: BF142021.D

Acq: 20 Mar 2025 20:05

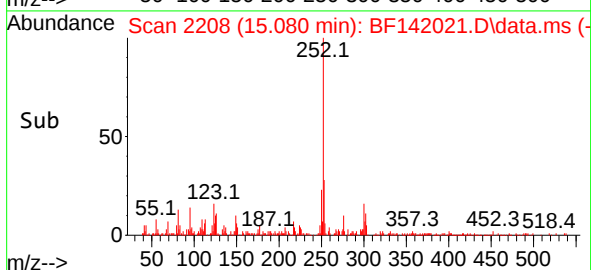
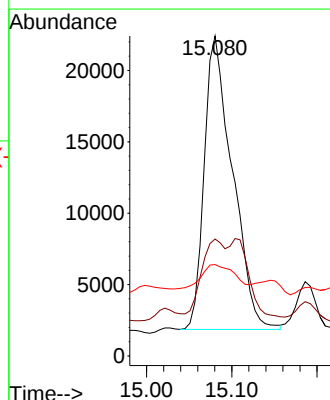
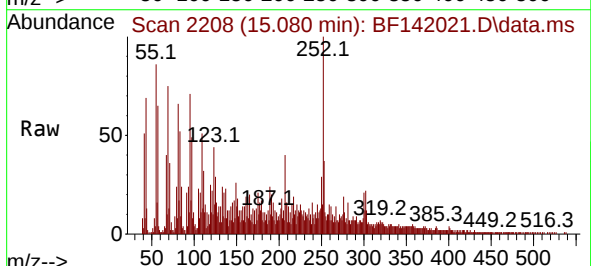
Tgt Ion:252 Resp: 47184

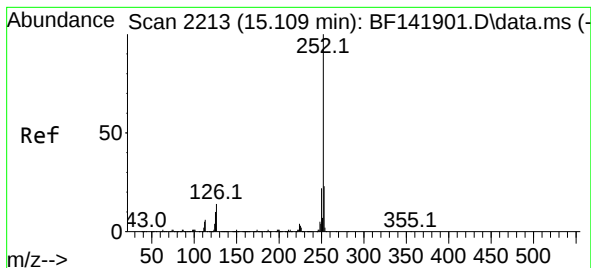
Ion Ratio Lower Upper

252 100

253 36.5 17.5 26.3#

125 28.6 7.0 10.4#





#89

Benzo(k)fluoranthene

Concen: 4.170 ng

RT: 15.080 min Scan# 21

Delta R.T. -0.029 min

Lab File: BF142021.D

Acq: 20 Mar 2025 20:05

Instrument :

BNA\_F

ClientSampleId :

OR-03-031925

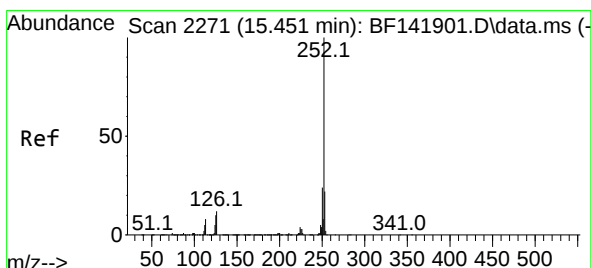
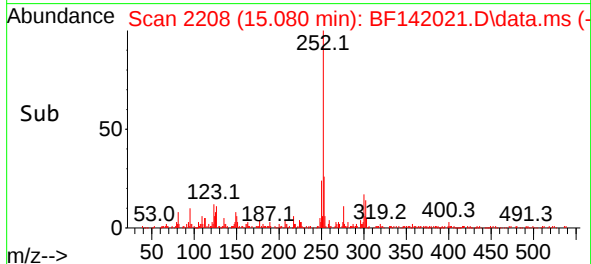
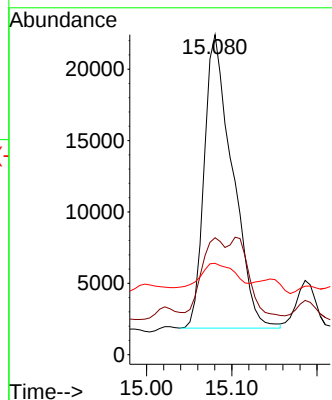
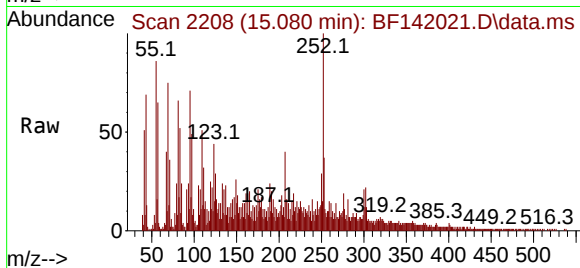
Tgt Ion:252 Resp: 47184

Ion Ratio Lower Upper

252 100

253 36.5 17.7 26.5#

125 28.6 7.2 10.8#



#90

Benzo(a)pyrene

Concen: 2.264 ng

RT: 15.445 min Scan# 2270

Delta R.T. -0.006 min

Lab File: BF142021.D

Acq: 20 Mar 2025 20:05

Tgt Ion:252 Resp: 23421

Ion Ratio Lower Upper

252 100

253 36.0 17.4 26.0#

125 36.6 7.8 11.8#

