

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF011725\  
 Data File : BF141206.D  
 Acq On : 17 Jan 2025 21:11  
 Operator : RC/JU  
 Sample : Q1115-04  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ-214

Quant Time: Jan 17 23:12:34 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF011025.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 10 22:54:19 2025  
 Response via : Initial Calibration

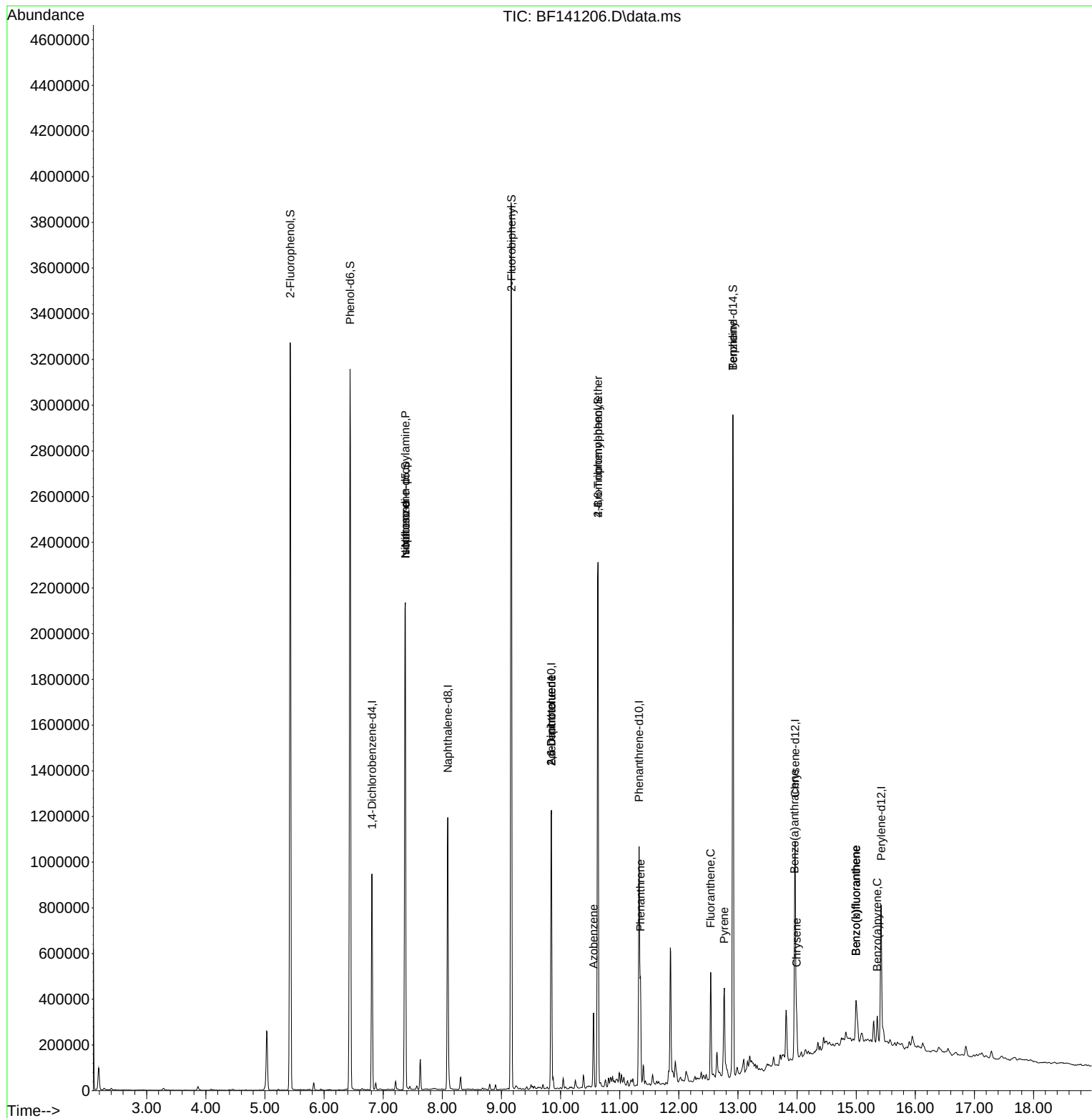
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.810  | 152  | 192388   | 20.000  | ng    | -0.01    |
| 21) Naphthalene-d8            | 8.092  | 136  | 744557   | 20.000  | ng    | -0.01    |
| 39) Acenaphthene-d10          | 9.845  | 164  | 369628   | 20.000  | ng    | -0.02    |
| 64) Phenanthrene-d10          | 11.327 | 188  | 510283   | 20.000  | ng    | -0.02    |
| 76) Chrysene-d12              | 13.968 | 240  | 398272   | 20.000  | ng    | -0.02    |
| 86) Perylene-d12              | 15.421 | 264  | 352190   | 20.000  | ng    | -0.02    |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.428  | 112  | 1302296  | 104.569 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.439  | 99   | 1621778  | 102.804 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.375  | 82   | 1042539  | 74.223  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.633 | 330  | 432101   | 102.596 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl          | 9.169  | 172  | 1785466  | 73.763  | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.916 | 244  | 1407017  | 52.508  | ng    | -0.02    |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.375  | 70   | 141806   | 15.260  | ng    | # 76     |
| 25) Isophorone                | 7.375  | 82   | 1036439  | 43.178  | ng    | # 65     |
| 51) 2,6-Dinitrotoluene        | 9.845  | 165  | 49159    | 8.519   | ng    | # 27     |
| 57) 2,4-Dinitrotoluene        | 9.845  | 165  | 49159    | 6.610   | ng    | # 24     |
| 63) Azobenzene                | 10.557 | 77   | 78302    | 3.276   | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.633 | 248  | 26917    | 4.582   | ng    | # 1      |
| 71) Phenanthrene              | 11.351 | 178  | 244688   | 8.932   | ng    | 99       |
| 75) Fluoranthene              | 12.539 | 202  | 251530   | 9.201   | ng    | 99       |
| 77) Benzidine                 | 12.916 | 184  | 18681    | 2.529   | ng    | # 90     |
| 78) Pyrene                    | 12.769 | 202  | 219651   | 5.774   | ng    | 99       |
| 81) Benzo(a)anthracene        | 13.957 | 228  | 122734   | 4.528   | ng    | 97       |
| 83) Chrysene                  | 13.992 | 228  | 100789   | 3.974   | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 14.998 | 252  | 149920   | 6.601   | ng    | # 96     |
| 89) Benzo(k)fluoranthene      | 14.998 | 252  | 149920   | 7.811   | ng    | # 96     |
| 90) Benzo(a)pyrene            | 15.357 | 252  | 71854    | 3.835   | ng    | 96       |
| -----                         |        |      |          |         |       |          |

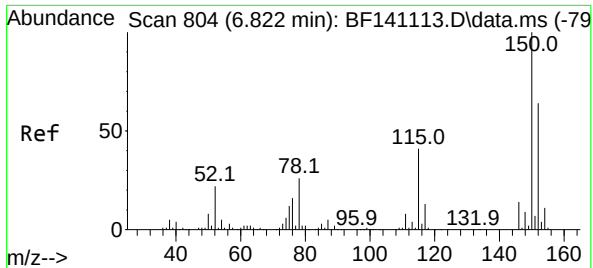
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF011725\  
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Sample : Q1115-04  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-214

Quant Time: Jan 17 23:12:34 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF011025.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jan 10 22:54:19 2025  
Response via : Initial Calibration

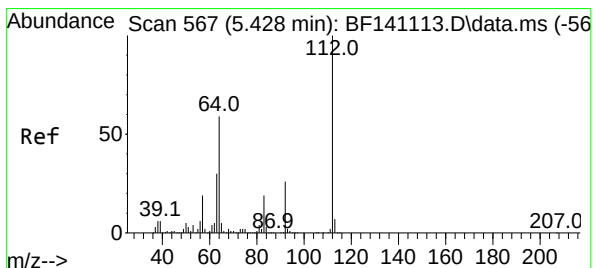
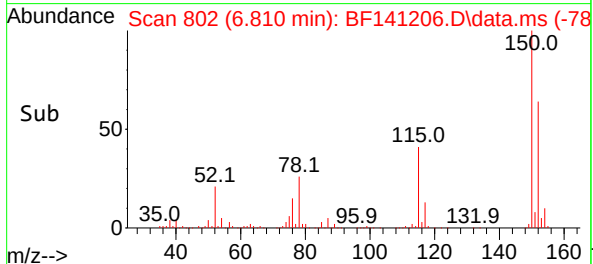
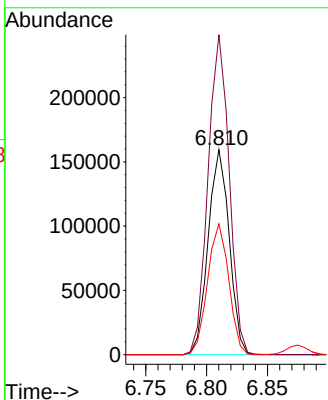
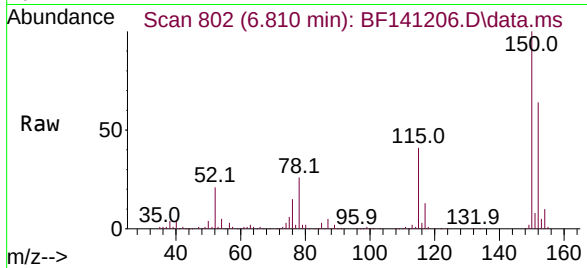




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.810 min Scan# 804  
Delta R.T. -0.012 min  
Lab File: BF141206.D  
Acq: 17 Jan 2025 21:11

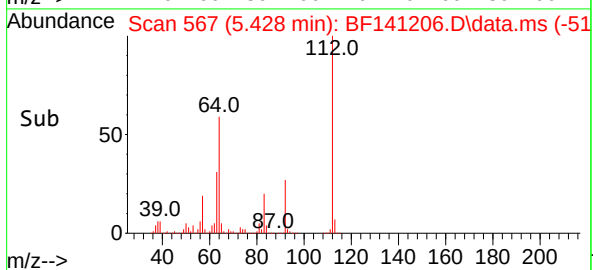
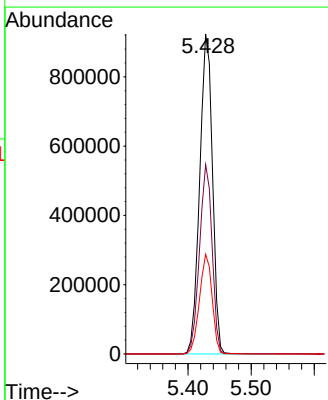
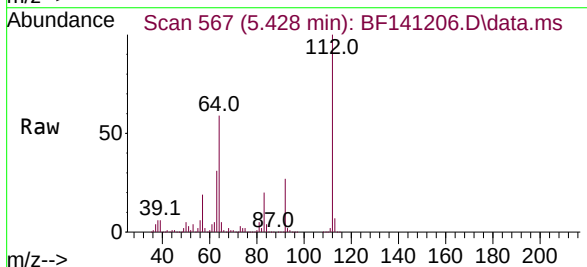
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-214

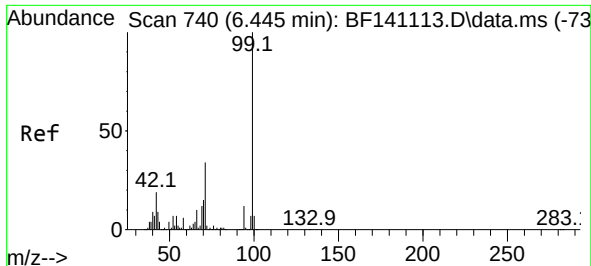
Tgt Ion:152 Resp: 192388  
Ion Ratio Lower Upper  
152 100  
150 156.1 125.8 188.8  
115 63.9 51.4 77.2



#5  
2-Fluorophenol  
Concen: 104.569 ng  
RT: 5.428 min Scan# 567  
Delta R.T. -0.000 min  
Lab File: BF141206.D  
Acq: 17 Jan 2025 21:11

Tgt Ion:112 Resp: 1302296  
Ion Ratio Lower Upper  
112 100  
64 59.2 47.3 70.9  
63 31.2 24.2 36.2

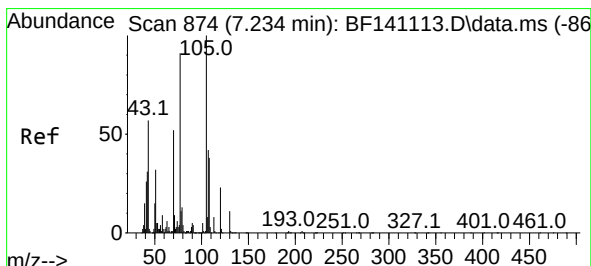
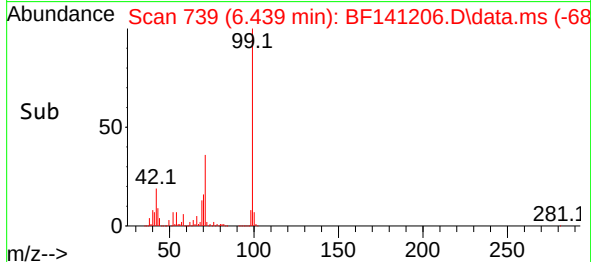
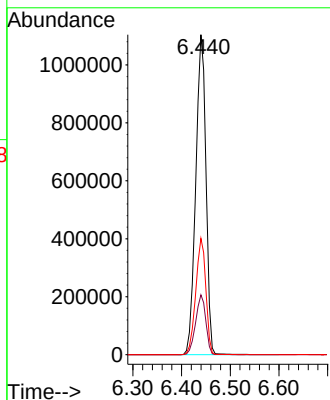
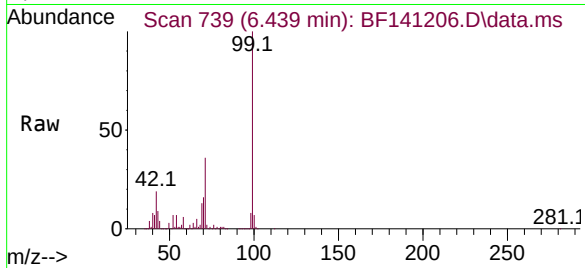




#7  
Phenol-d6  
Concen: 102.804 ng  
RT: 6.439 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF141206.D  
Acq: 17 Jan 2025 21:11

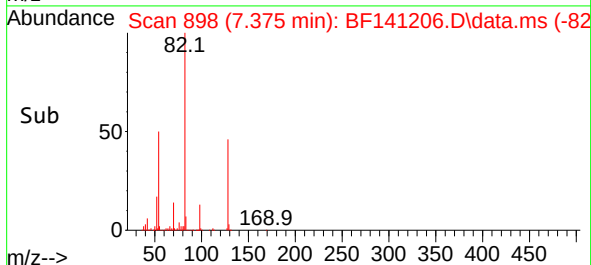
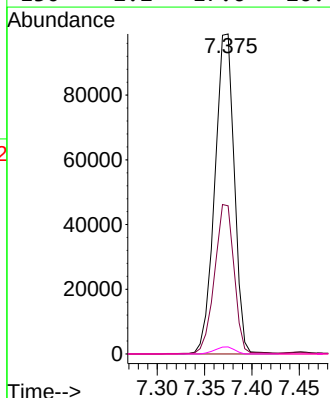
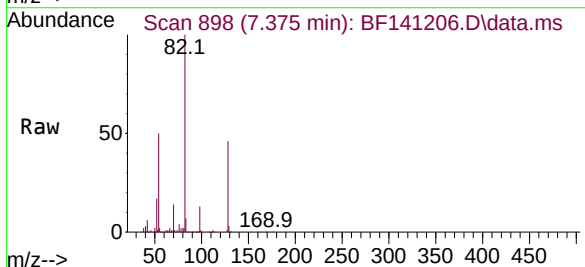
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-214

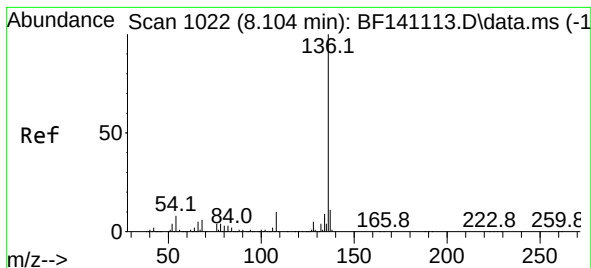
Tgt Ion: 99 Resp: 1621778  
Ion Ratio Lower Upper  
99 100  
42 18.7 15.0 22.4  
71 36.4 27.6 41.4



#19  
n-Nitroso-di-n-propylamine  
Concen: 15.260 ng  
RT: 7.375 min Scan# 898  
Delta R.T. 0.141 min  
Lab File: BF141206.D  
Acq: 17 Jan 2025 21:11

Tgt Ion: 70 Resp: 141806  
Ion Ratio Lower Upper  
70 100  
42 46.3 47.8 71.6#  
101 0.0 7.9 11.9#  
130 2.2 17.6 26.4#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.092 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF141206.D

Acq: 17 Jan 2025 21:11

Instrument :

BNA\_F

ClientSampleId :

VNJ-214

Tgt Ion:136 Resp: 744557

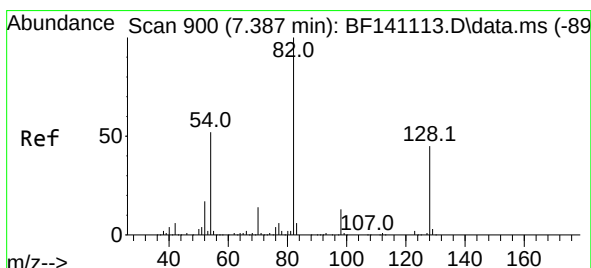
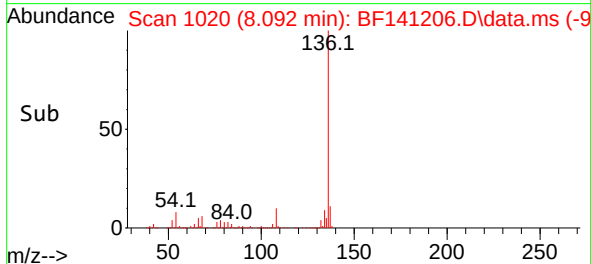
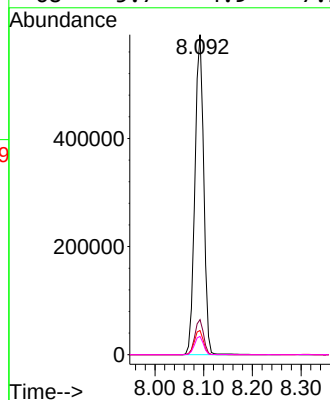
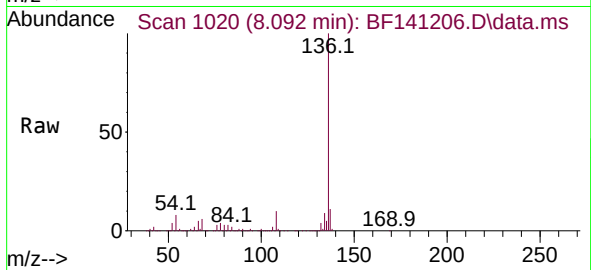
Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

54 7.6 6.3 9.5

68 5.7 4.9 7.3



#23

Nitrobenzene-d5

Concen: 74.223 ng

RT: 7.375 min Scan# 898

Delta R.T. -0.012 min

Lab File: BF141206.D

Acq: 17 Jan 2025 21:11

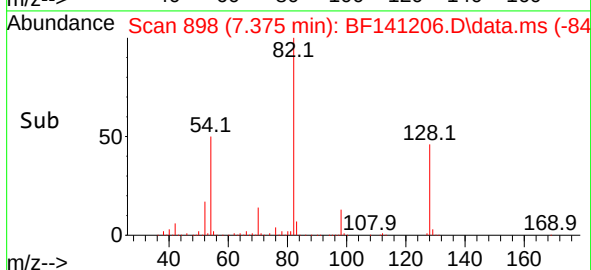
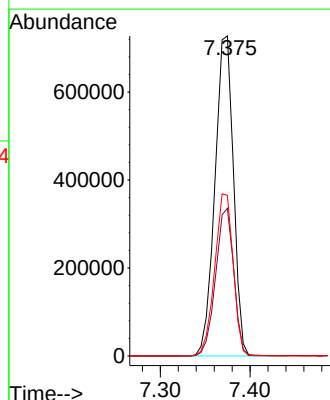
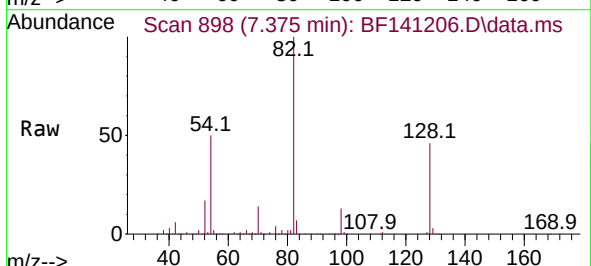
Tgt Ion: 82 Resp: 1042539

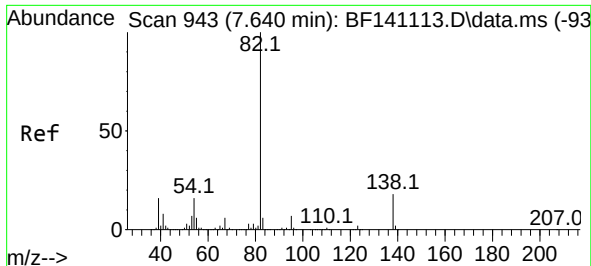
Ion Ratio Lower Upper

82 100

128 46.2 36.1 54.1

54 50.2 41.0 61.4

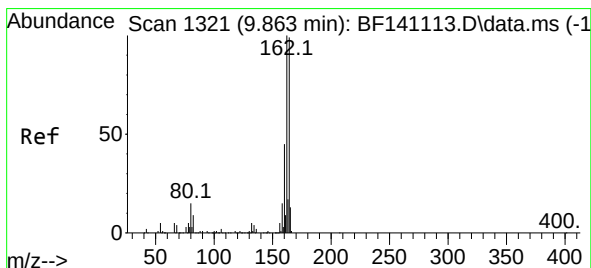
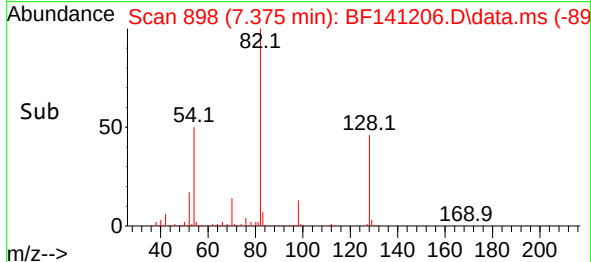
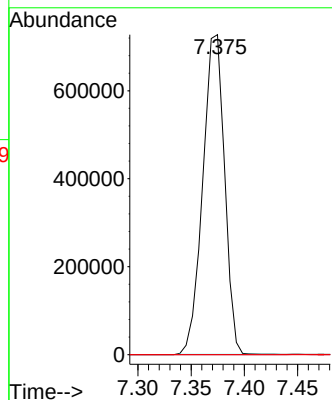
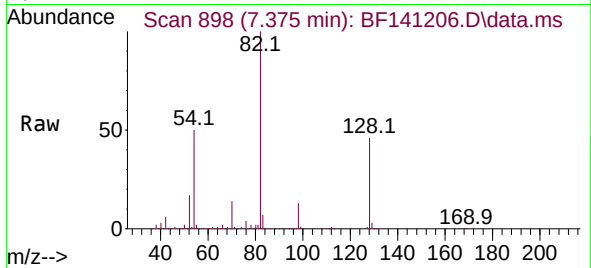




#25  
Isophorone  
Concen: 43.178 ng  
RT: 7.375 min Scan# 89  
Delta R.T. -0.265 min  
Lab File: BF141206.D  
Acq: 17 Jan 2025 21:11

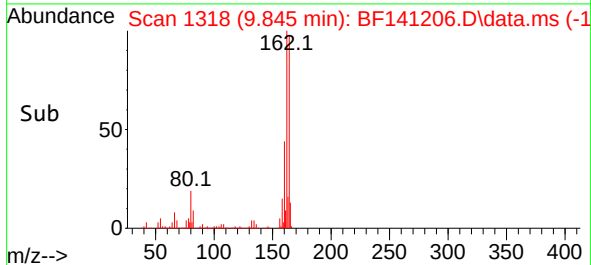
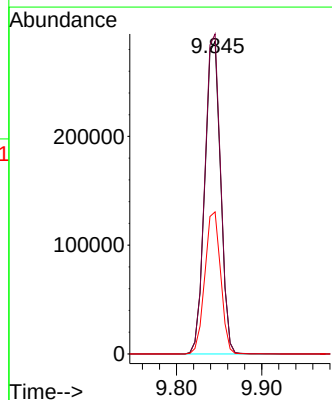
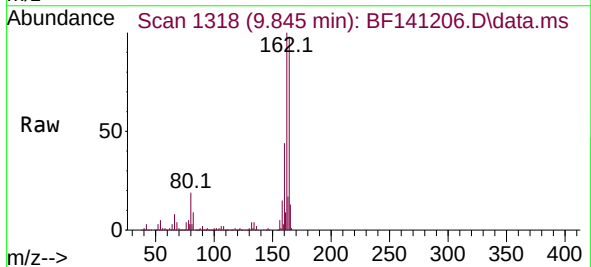
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VNJ-214

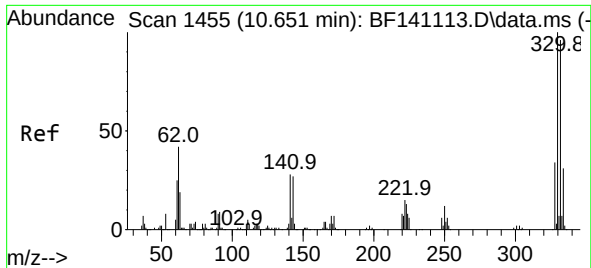
Tgt Ion: 82 Resp: 1036439  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.9 8.9#  
138 0.0 14.2 21.2#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.845 min Scan# 1318  
Delta R.T. -0.018 min  
Lab File: BF141206.D  
Acq: 17 Jan 2025 21:11

Tgt Ion:164 Resp: 369628  
Ion Ratio Lower Upper  
164 100  
162 102.3 81.0 121.4  
160 45.4 36.1 54.1

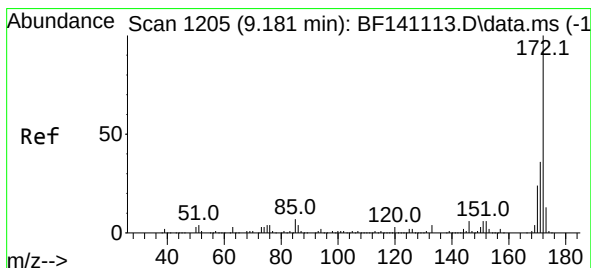
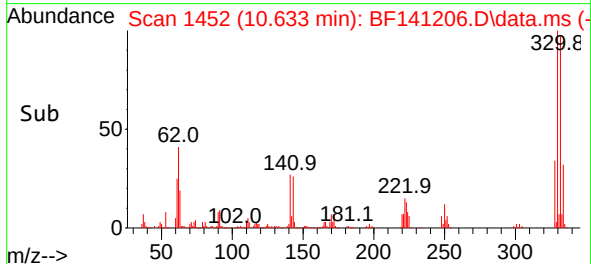
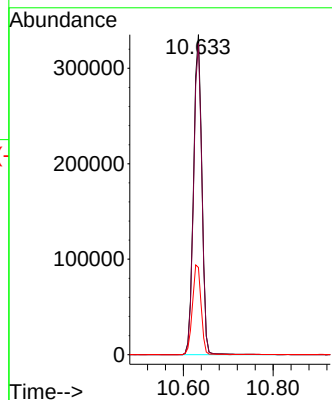
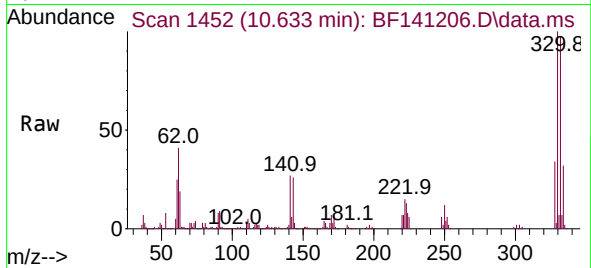




#42  
2,4,6-Tribromophenol  
Concen: 102.596 ng  
RT: 10.633 min Scan# 1452  
Delta R.T. -0.018 min  
Lab File: BF141206.D  
Acq: 17 Jan 2025 21:11

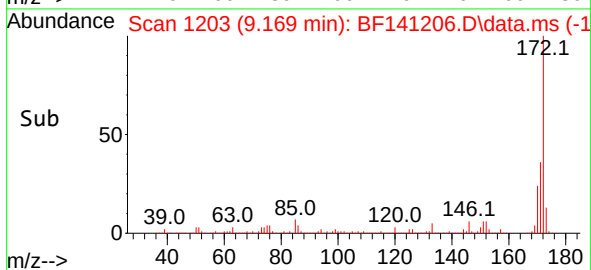
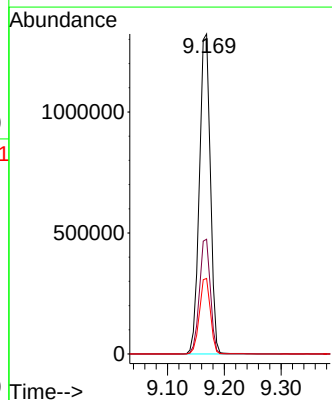
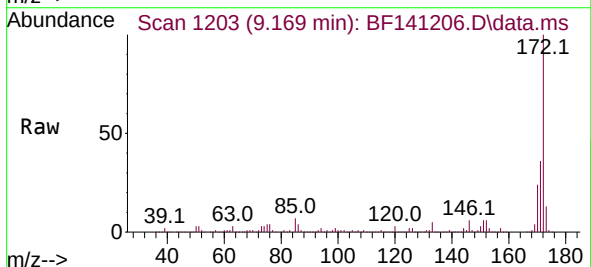
Instrument :  
BNA\_F  
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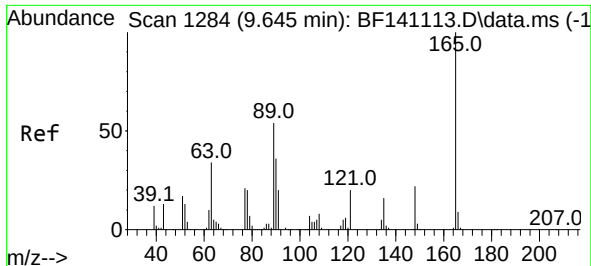
Tgt Ion:330 Resp: 432101  
Ion Ratio Lower Upper  
330 100  
332 96.7 76.9 115.3  
141 29.3 25.2 37.8



#45  
2-Fluorobiphenyl  
Concen: 73.763 ng  
RT: 9.169 min Scan# 1203  
Delta R.T. -0.012 min  
Lab File: BF141206.D  
Acq: 17 Jan 2025 21:11

Tgt Ion:172 Resp: 1785466  
Ion Ratio Lower Upper  
172 100  
171 35.8 28.7 43.1  
170 23.6 19.0 28.6

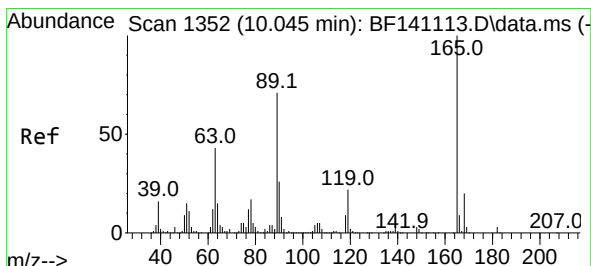
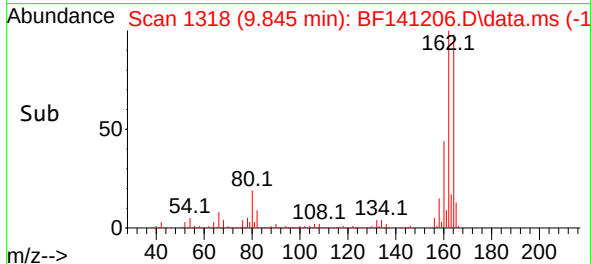
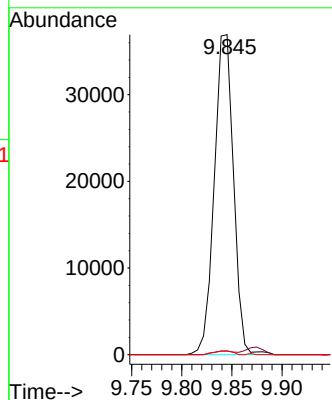
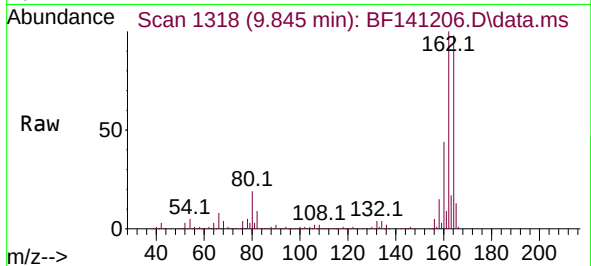




#51  
2,6-Dinitrotoluene  
Concen: 8.519 ng  
RT: 9.845 min Scan# 11  
Delta R.T. 0.200 min  
Lab File: BF141206.D  
Acq: 17 Jan 2025 21:11

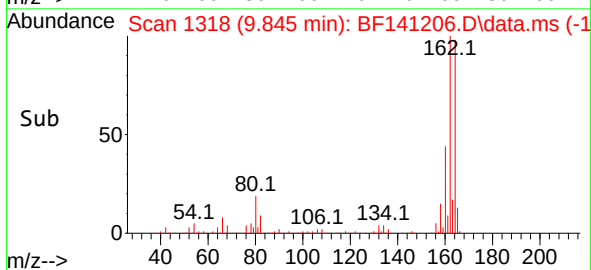
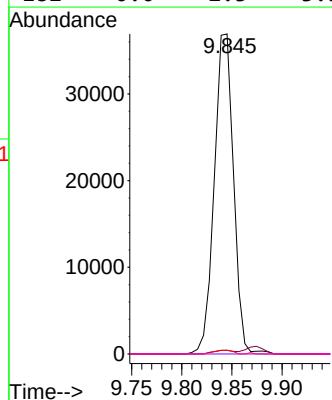
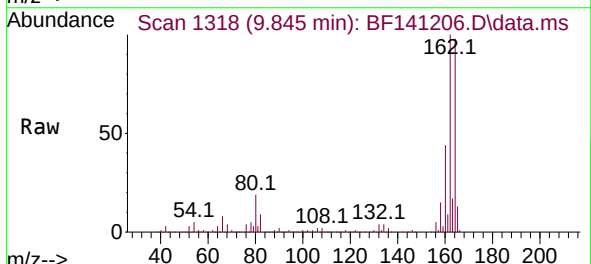
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-214

Tgt Ion:165 Resp: 49159  
Ion Ratio Lower Upper  
165 100  
63 1.1 42.3 63.5#  
89 1.2 43.1 64.7#

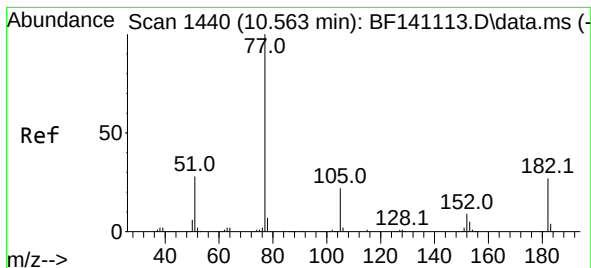


#57  
2,4-Dinitrotoluene  
Concen: 6.610 ng  
RT: 9.845 min Scan# 1318  
Delta R.T. -0.200 min  
Lab File: BF141206.D  
Acq: 17 Jan 2025 21:11

Tgt Ion:165 Resp: 49159  
Ion Ratio Lower Upper  
165 100  
63 1.1 35.0 52.4#  
89 1.2 56.7 85.1#  
182 0.0 2.3 3.5#







#63

Azobenzene

Concen: 3.276 ng

RT: 10.557 min Scan# 1440

Delta R.T. -0.006 min

Lab File: BF141206.D

Acq: 17 Jan 2025 21:11

Instrument :

BNA\_F

ClientSampleId :

VNJ-214

Tgt Ion: 77 Resp: 78302

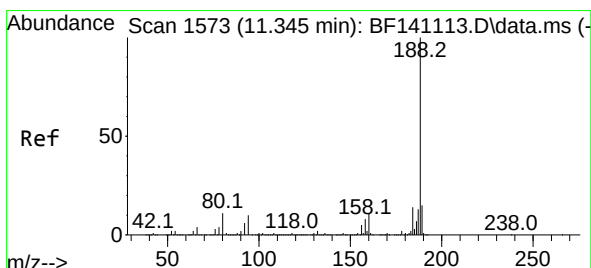
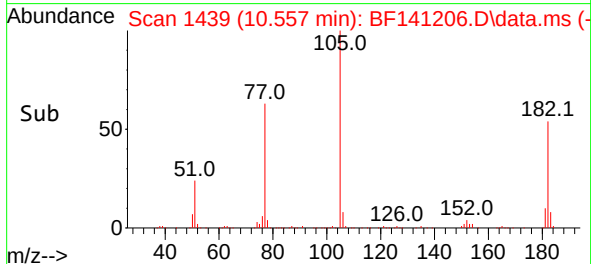
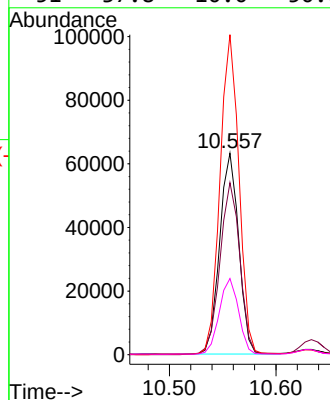
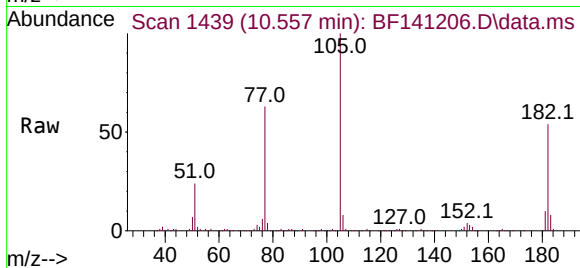
Ion Ratio Lower Upper

77 100

182 85.4 6.1 46.1#

105 158.8 2.1 42.1#

51 37.8 10.0 50.0



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.327 min Scan# 1570

Delta R.T. -0.018 min

Lab File: BF141206.D

Acq: 17 Jan 2025 21:11

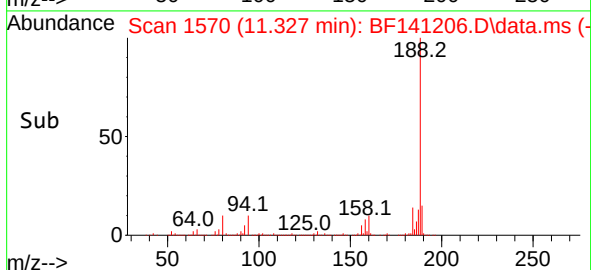
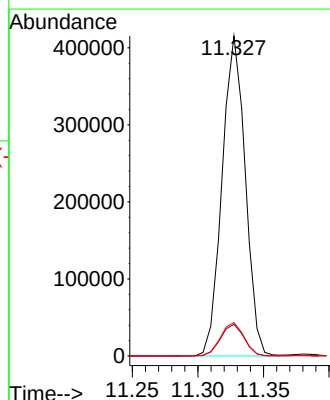
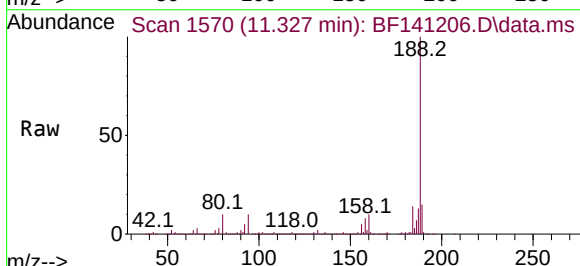
Tgt Ion:188 Resp: 510283

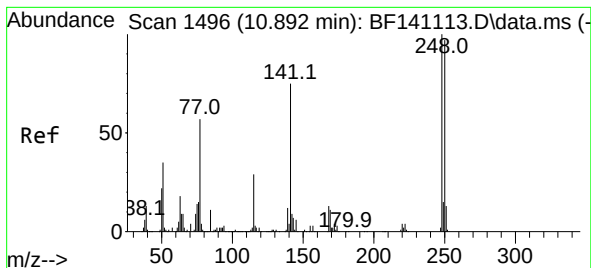
Ion Ratio Lower Upper

188 100

94 9.9 8.3 12.5

80 10.5 9.0 13.4

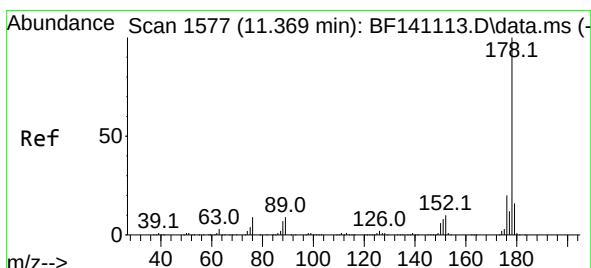
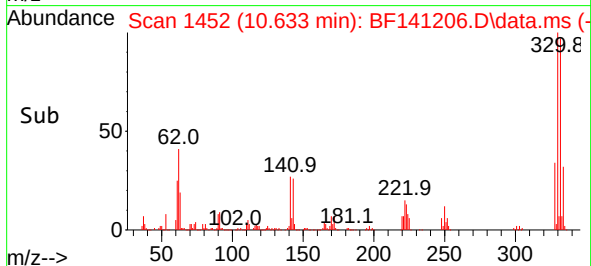
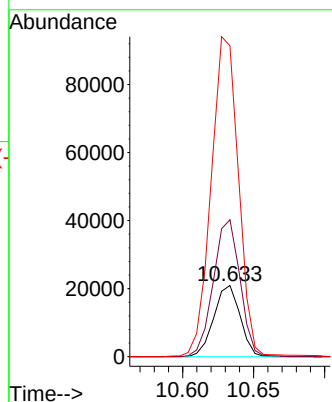
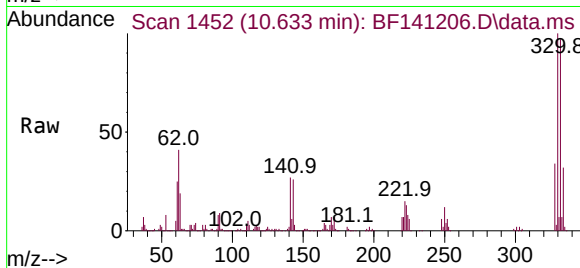




#67  
4-Bromophenyl-phenylether  
Concen: 4.582 ng  
RT: 10.633 min Scan# 1496  
Delta R.T. -0.259 min  
Lab File: BF141206.D  
Acq: 17 Jan 2025 21:11

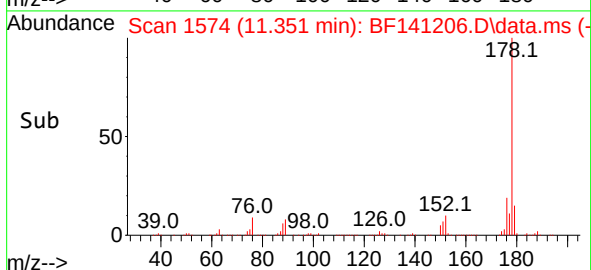
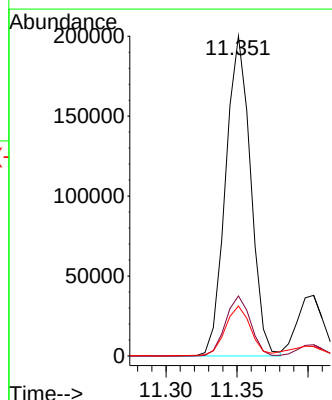
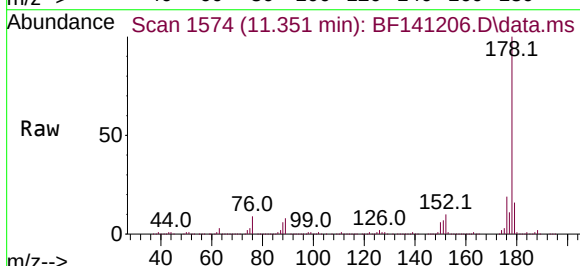
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-214

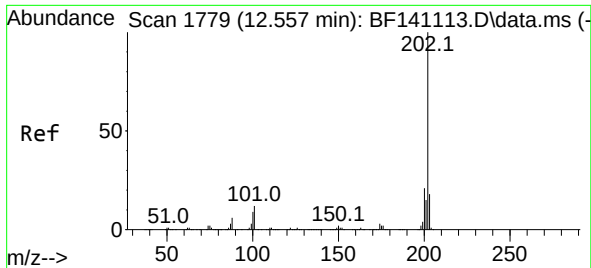
Tgt Ion:248 Resp: 26917  
Ion Ratio Lower Upper  
248 100  
250 192.2 77.9 116.9#  
141 436.6 59.9 89.9#



#71  
Phenanthrene  
Concen: 8.932 ng  
RT: 11.351 min Scan# 1574  
Delta R.T. -0.018 min  
Lab File: BF141206.D  
Acq: 17 Jan 2025 21:11

Tgt Ion:178 Resp: 244688  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.7 23.5  
179 15.6 12.6 19.0

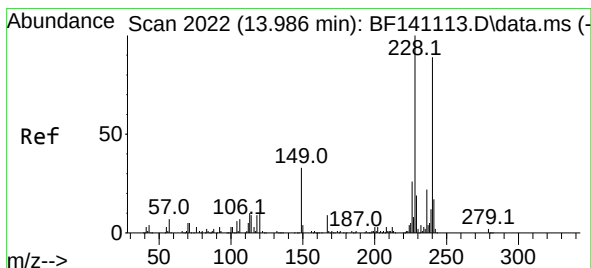
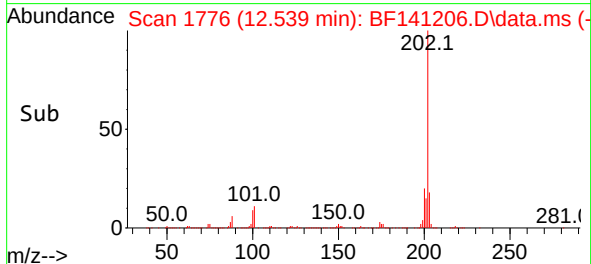
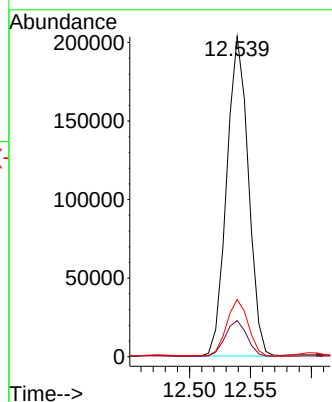
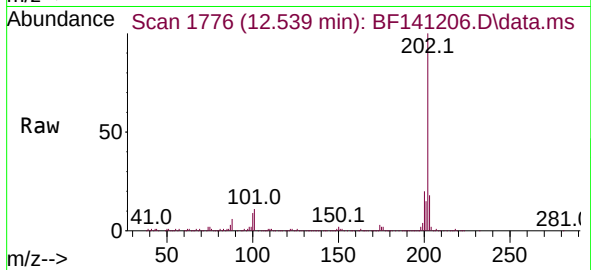




#75  
Fluoranthene  
Concen: 9.201 ng  
RT: 12.539 min Scan# 11  
Delta R.T. -0.018 min  
Lab File: BF141206.D  
Acq: 17 Jan 2025 21:11

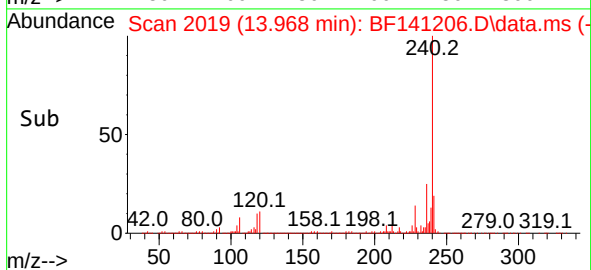
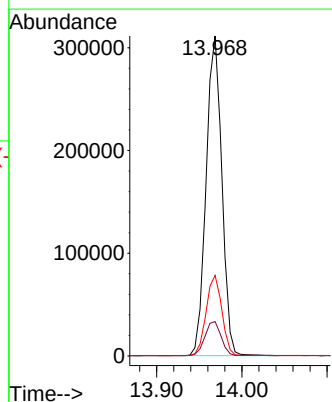
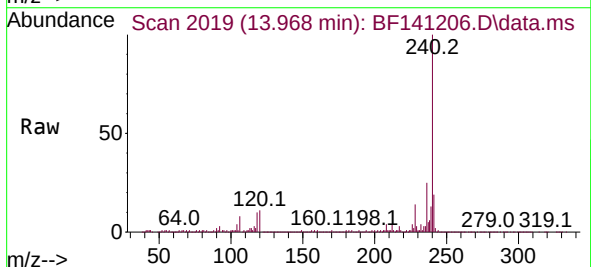
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-214

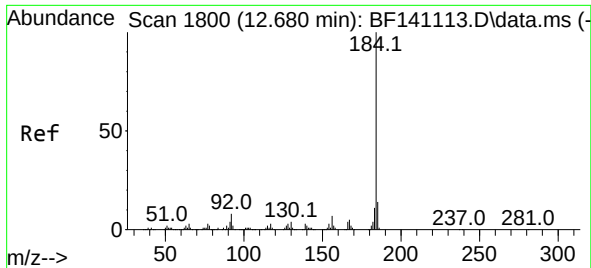
Tgt Ion:202 Resp: 251530  
Ion Ratio Lower Upper  
202 100  
101 11.3 0.0 32.3  
203 17.8 0.0 37.7



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.968 min Scan# 2019  
Delta R.T. -0.018 min  
Lab File: BF141206.D  
Acq: 17 Jan 2025 21:11

Tgt Ion:240 Resp: 398272  
Ion Ratio Lower Upper  
240 100  
120 10.8 9.1 13.7  
236 25.2 19.8 29.6

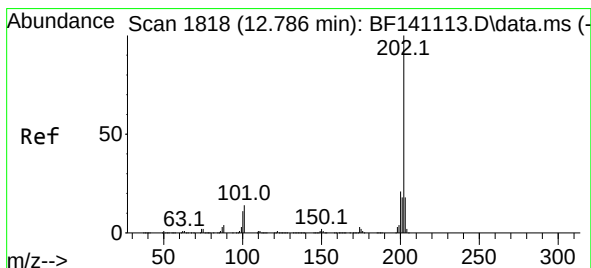
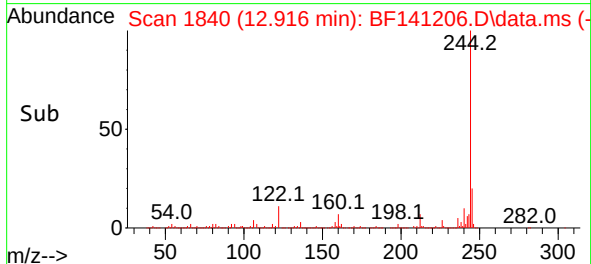
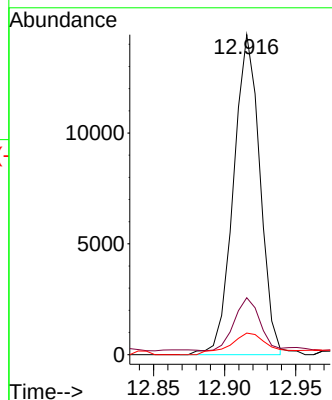
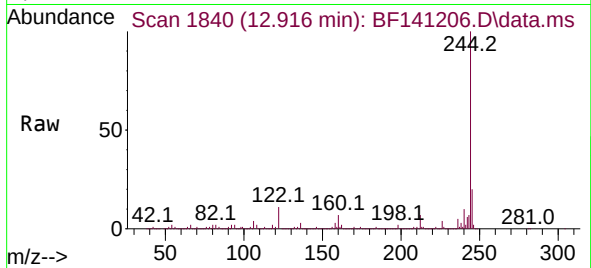




#77  
Benzidine  
Concen: 2.529 ng  
RT: 12.916 min Scan# 1840  
Delta R.T. 0.235 min  
Lab File: BF141206.D  
Acq: 17 Jan 2025 21:11

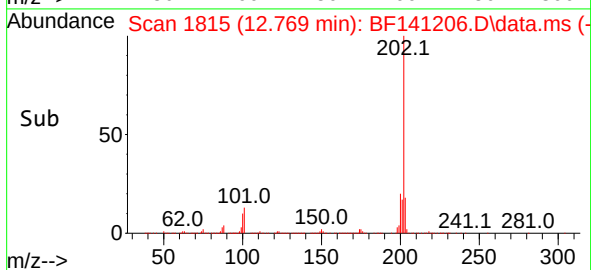
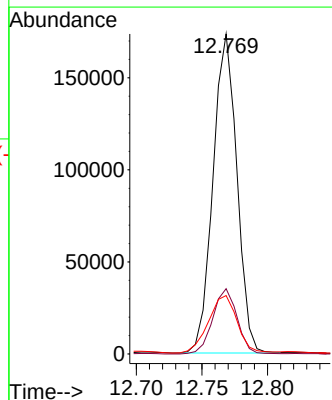
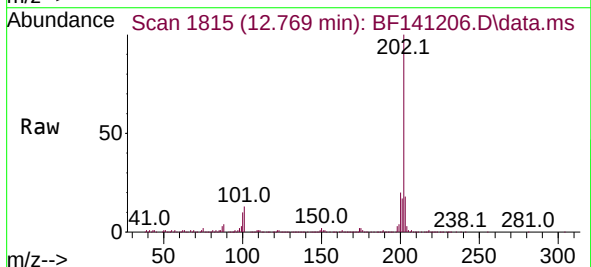
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-214

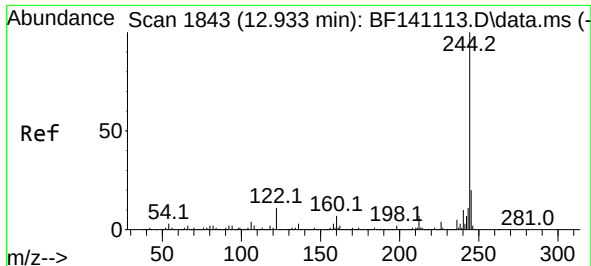
Tgt Ion:184 Resp: 18681  
Ion Ratio Lower Upper  
184 100  
185 17.8 11.4 17.0#  
183 6.8 9.2 13.8#



#78  
Pyrene  
Concen: 5.774 ng  
RT: 12.769 min Scan# 1815  
Delta R.T. -0.018 min  
Lab File: BF141206.D  
Acq: 17 Jan 2025 21:11

Tgt Ion:202 Resp: 219651  
Ion Ratio Lower Upper  
202 100  
200 20.4 16.8 25.2  
203 18.3 14.3 21.5

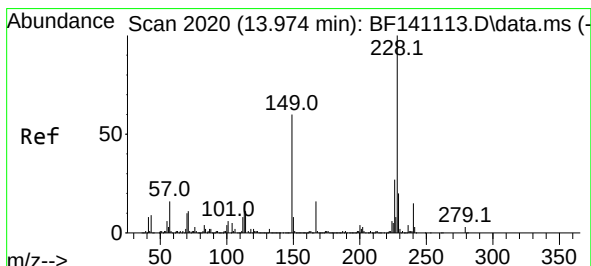
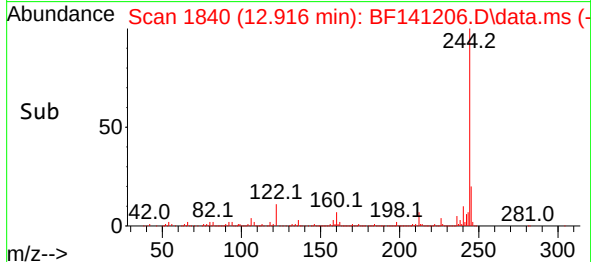
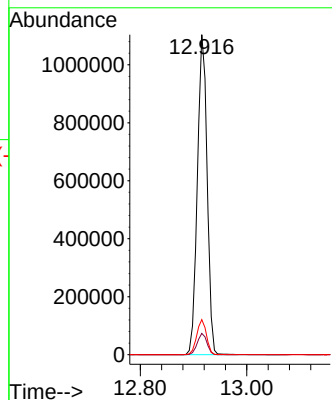
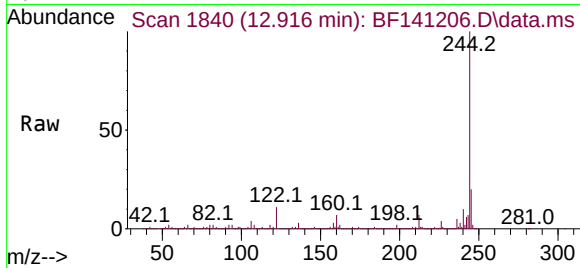




#79  
 Terphenyl-d14  
 Concen: 52.508 ng  
 RT: 12.916 min Scan# 11  
 Delta R.T. -0.018 min  
 Lab File: BF141206.D  
 Acq: 17 Jan 2025 21:11

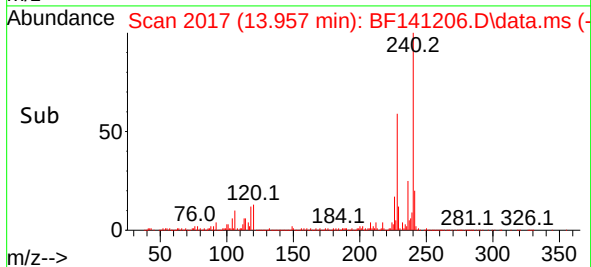
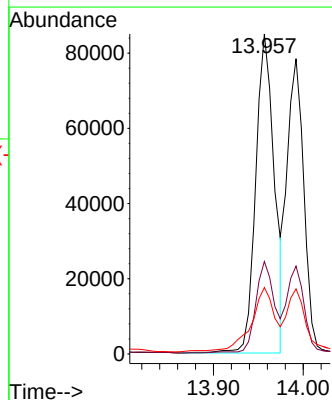
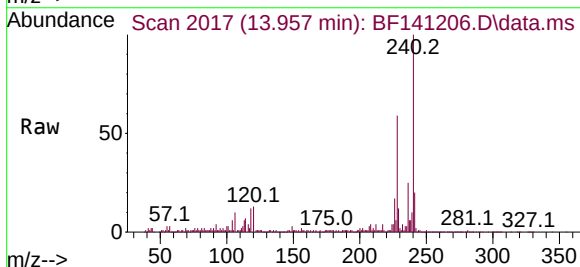
Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ-214

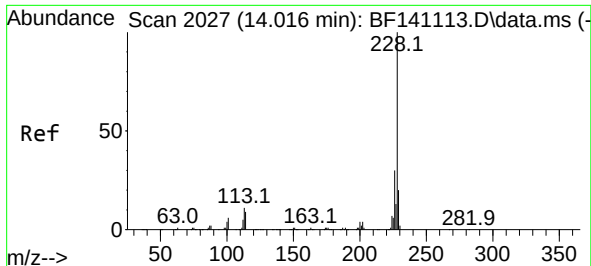
Tgt Ion:244 Resp: 1407017  
 Ion Ratio Lower Upper  
 244 100  
 212 6.6 5.4 8.2  
 122 10.9 8.8 13.2



#81  
 Benzo(a)anthracene  
 Concen: 4.528 ng  
 RT: 13.957 min Scan# 2017  
 Delta R.T. -0.018 min  
 Lab File: BF141206.D  
 Acq: 17 Jan 2025 21:11

Tgt Ion:228 Resp: 122734  
 Ion Ratio Lower Upper  
 228 100  
 226 28.9 21.7 32.5  
 229 20.8 15.7 23.5

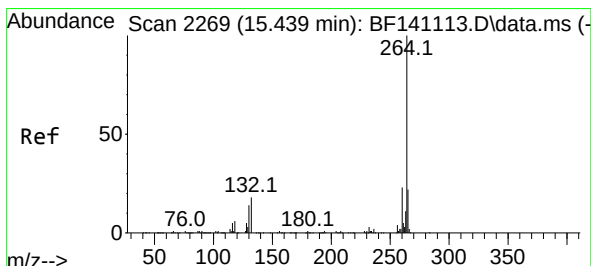
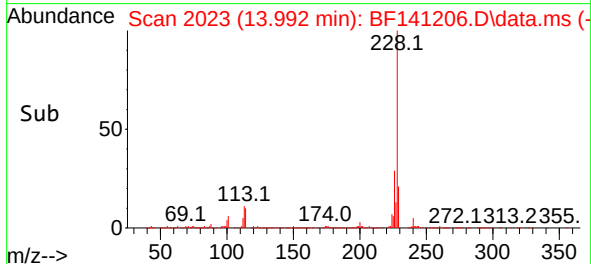
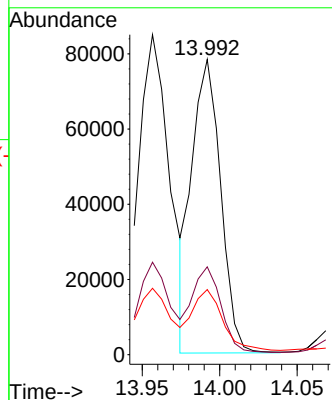
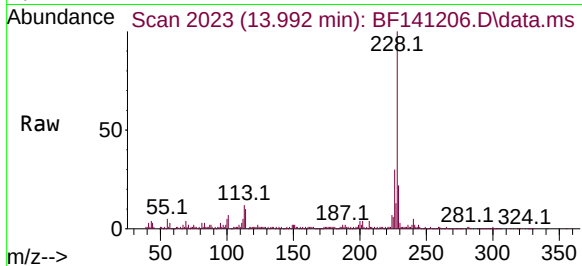




#83  
Chrysene  
Concen: 3.974 ng  
RT: 13.992 min Scan# 2027  
Delta R.T. -0.024 min  
Lab File: BF141206.D  
Acq: 17 Jan 2025 21:11

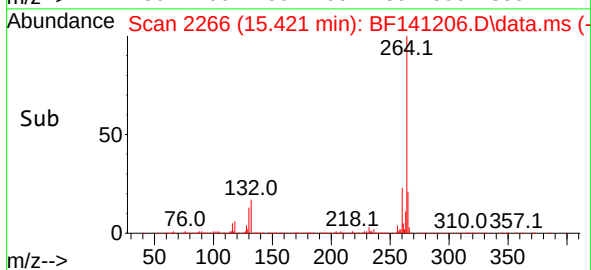
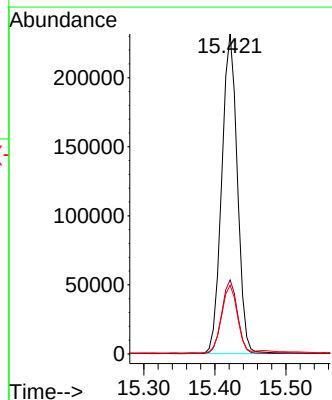
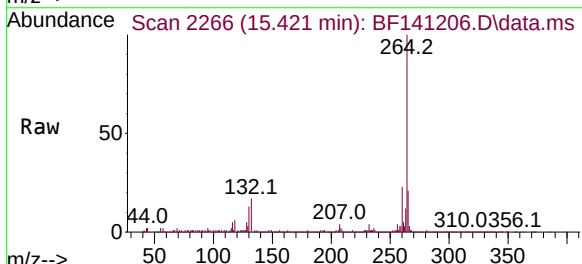
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-214

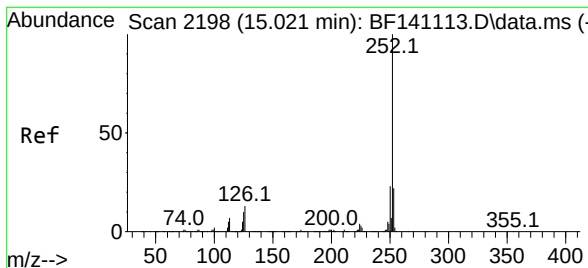
Tgt Ion:228 Resp: 100789  
Ion Ratio Lower Upper  
228 100  
226 29.7 23.8 35.8  
229 22.1 15.8 23.8



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.421 min Scan# 2266  
Delta R.T. -0.018 min  
Lab File: BF141206.D  
Acq: 17 Jan 2025 21:11

Tgt Ion:264 Resp: 352190  
Ion Ratio Lower Upper  
264 100  
260 23.2 18.6 28.0  
265 21.4 17.4 26.0





#88

Benzo(b)fluoranthene

Concen: 6.601 ng

RT: 14.998 min Scan# 2194

Delta R.T. -0.024 min

Lab File: BF141206.D

Acq: 17 Jan 2025 21:11

Instrument :

BNA\_F

ClientSampleId :

VNJ-214

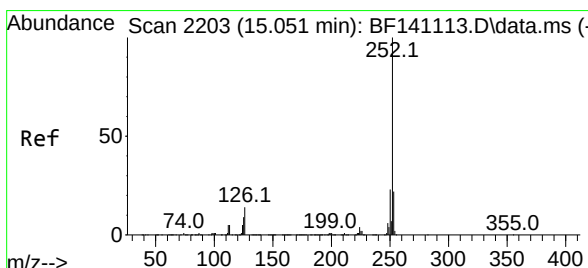
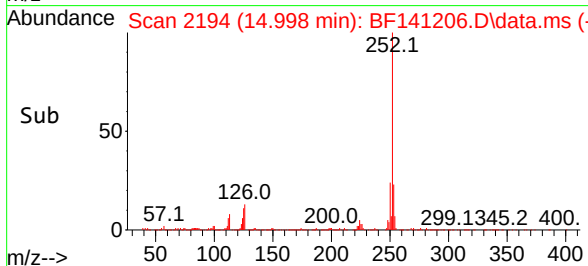
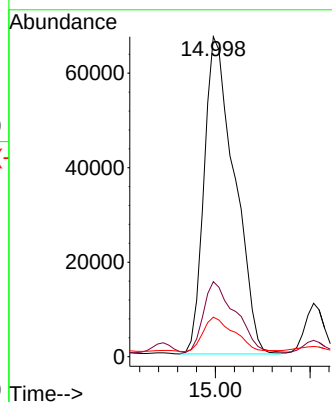
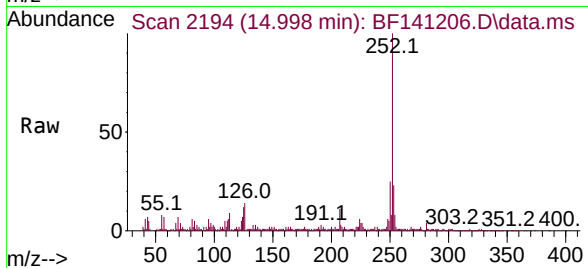
Tgt Ion:252 Resp: 149920

Ion Ratio Lower Upper

252 100

253 23.5 17.8 26.6

125 12.4 8.1 12.1#



#89

Benzo(k)fluoranthene

Concen: 7.811 ng

RT: 14.998 min Scan# 2194

Delta R.T. -0.053 min

Lab File: BF141206.D

Acq: 17 Jan 2025 21:11

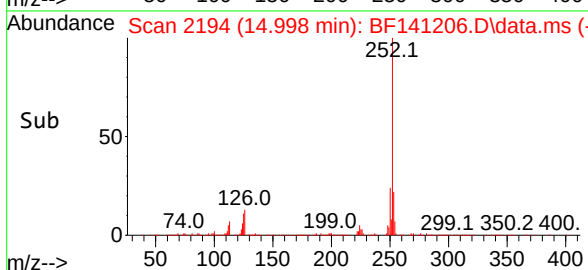
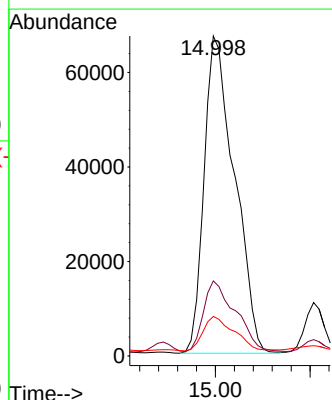
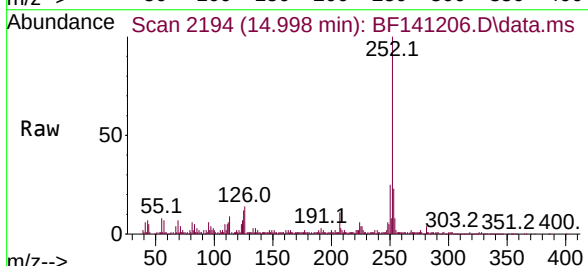
Tgt Ion:252 Resp: 149920

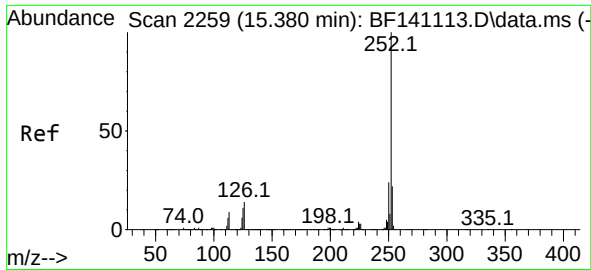
Ion Ratio Lower Upper

252 100

253 23.5 17.8 26.8

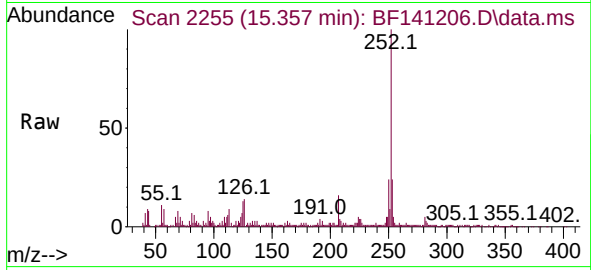
125 12.4 7.9 11.9#





#90  
Benzo(a)pyrene  
Concen: 3.835 ng  
RT: 15.357 min Scan# 21  
Delta R.T. -0.024 min  
Lab File: BF141206.D  
Acq: 17 Jan 2025 21:11

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-214



|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 71854     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 23.8  | 17.7 26.5 |
| 125         | 12.9  | 9.1 13.7  |

