

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF072425\  
 Data File : BF143240.D  
 Acq On : 24 Jul 2025 18:25  
 Operator : RC/JU  
 Sample : Q2675-01 2X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-03-07222025

Quant Time: Jul 25 01:18:22 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF071725.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 17 15:14:05 2025  
 Response via : Initial Calibration

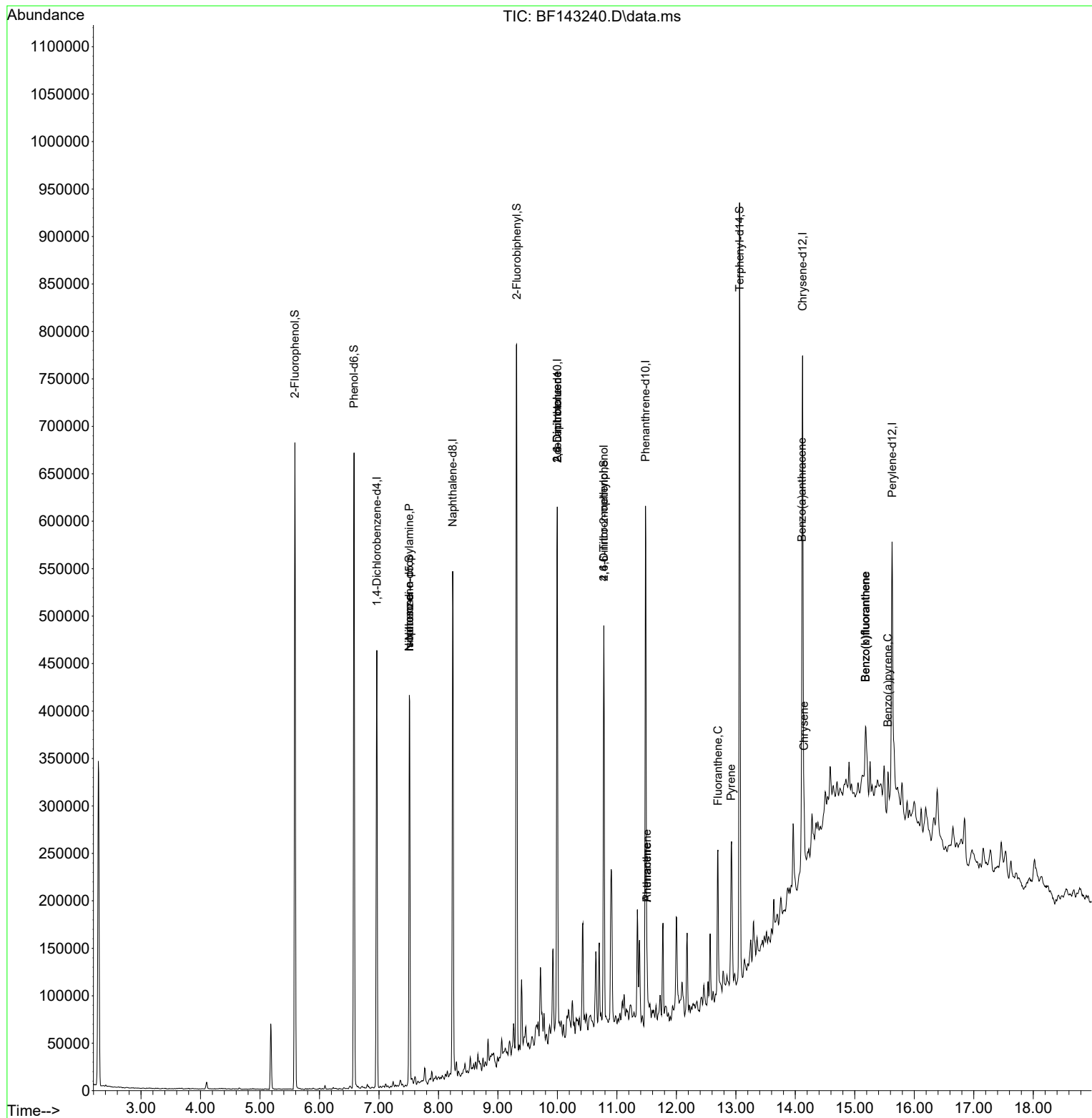
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.963  | 152  | 90832    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.239  | 136  | 320973   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.998  | 164  | 159082   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.480 | 188  | 276285   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.121 | 240  | 242202   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.627 | 264  | 161846   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.587  | 112  | 231361   | 40.307 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.581  | 99   | 280182   | 38.781 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.510  | 82   | 174071   | 27.033 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.780 | 330  | 66976    | 40.754 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.316  | 172  | 332362   | 28.573 | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.063 | 244  | 381441   | 23.436 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.510  | 70   | 23859    | 5.147  | ng    | # 81     |
| 25) Isophorone                | 7.510  | 82   | 172311   | 15.159 | ng    | # 66     |
| 51) 2,6-Dinitrotoluene        | 9.998  | 165  | 21223    | 10.061 | ng    | # 23     |
| 57) 2,4-Dinitrotoluene        | 9.998  | 165  | 21223    | 8.019  | ng    | # 21     |
| 65) 4,6-Dinitro-2-methylph... | 10.780 | 198  | 122      | 5.487  | ng    | # 1      |
| 71) Phenanthrene              | 11.504 | 178  | 32534    | 2.218  | ng    | 99       |
| 72) Anthracene                | 11.504 | 178  | 32534    | 2.174  | ng    | 99       |
| 75) Fluoranthene              | 12.698 | 202  | 87725    | 6.515  | ng    | 99       |
| 78) Pyrene                    | 12.921 | 202  | 83156    | 4.023  | ng    | 98       |
| 81) Benzo(a)anthracene        | 14.110 | 228  | 47254    | 2.914  | ng    | # 94     |
| 83) Chrysene                  | 14.145 | 228  | 38861    | 2.666  | ng    | # 93     |
| 88) Benzo(b)fluoranthene      | 15.180 | 252  | 53604    | 5.421  | ng    | # 84     |
| 89) Benzo(k)fluoranthene      | 15.180 | 252  | 53604    | 6.076  | ng    | # 84     |
| 90) Benzo(a)pyrene            | 15.557 | 252  | 25983    | 2.852  | ng    | # 85     |
| -----                         |        |      |          |        |       |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF072425\  
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Operator : RC/JU  
Sample : Q2675-01 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-07222025

Quant Time: Jul 25 01:18:22 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF071725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jul 17 15:14:05 2025  
Response via : Initial Calibration

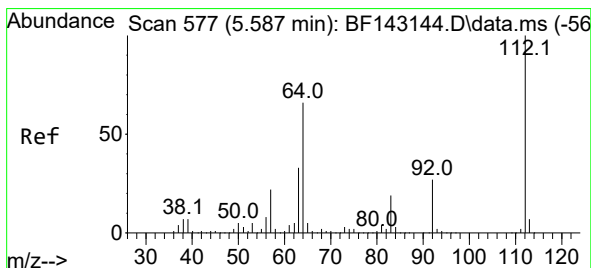
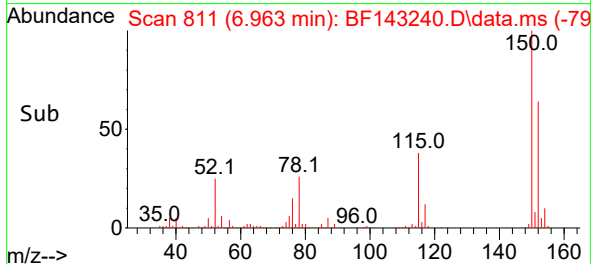
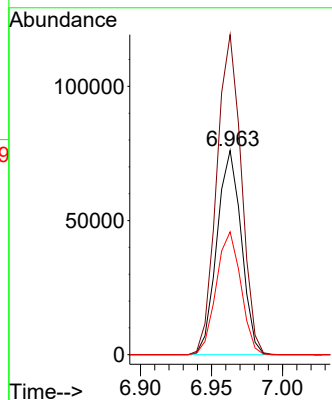
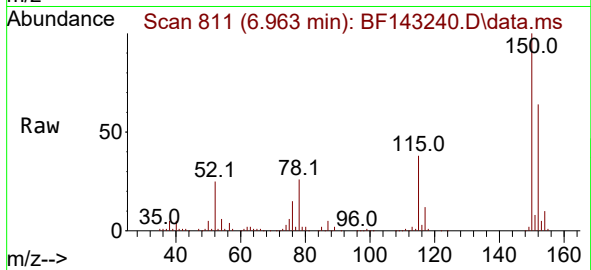




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.963 min Scan# 811  
Delta R.T. -0.000 min  
Lab File: BF143240.D  
Acq: 24 Jul 2025 18:25

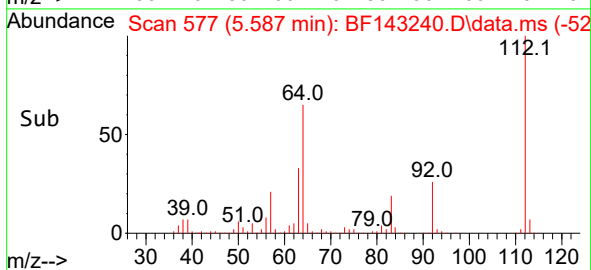
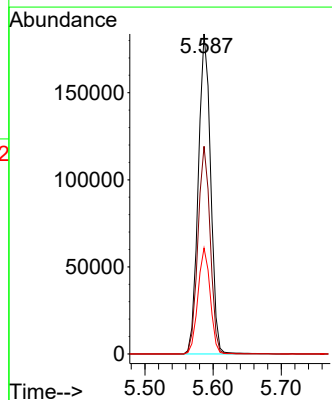
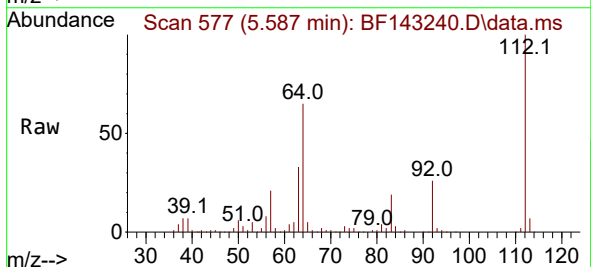
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-07222025

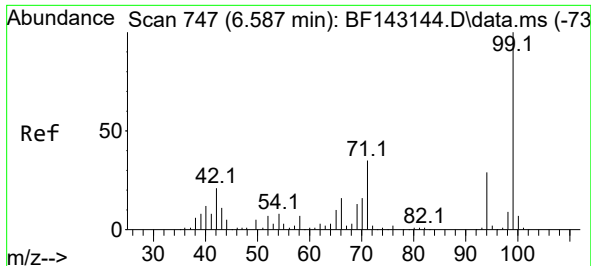
Tgt Ion:152 Resp: 90832  
Ion Ratio Lower Upper  
152 100  
150 156.7 128.2 192.4  
115 60.2 47.9 71.9



#5  
2-Fluorophenol  
Concen: 40.307 ng  
RT: 5.587 min Scan# 577  
Delta R.T. -0.000 min  
Lab File: BF143240.D  
Acq: 24 Jul 2025 18:25

Tgt Ion:112 Resp: 231361  
Ion Ratio Lower Upper  
112 100  
64 64.9 53.1 79.7  
63 33.1 26.6 40.0

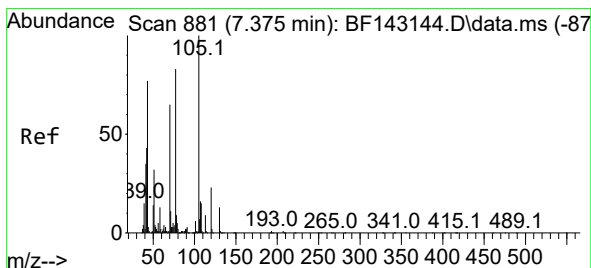
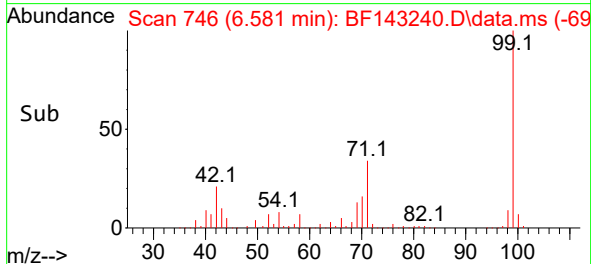
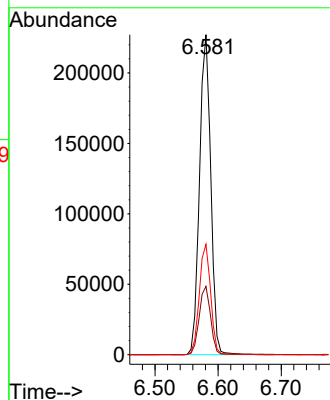
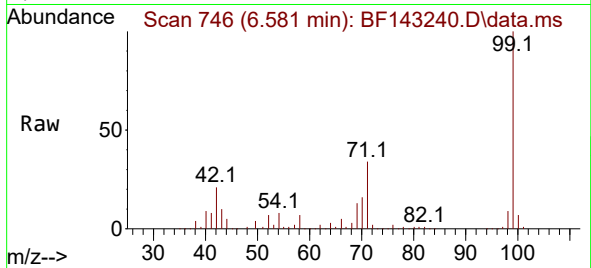




#7  
Phenol-d6  
Concen: 38.781 ng  
RT: 6.581 min Scan# 74  
Delta R.T. -0.006 min  
Lab File: BF143240.D  
Acq: 24 Jul 2025 18:25

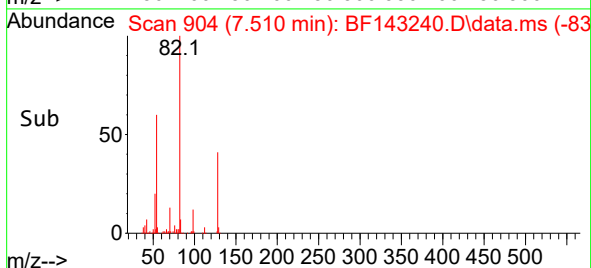
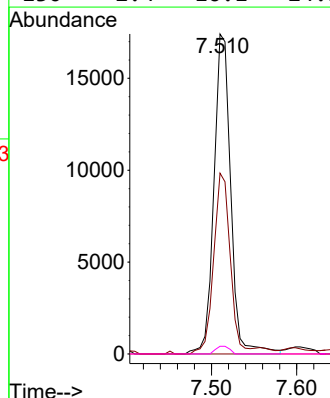
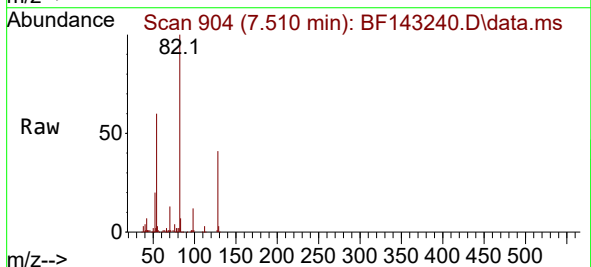
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-07222025

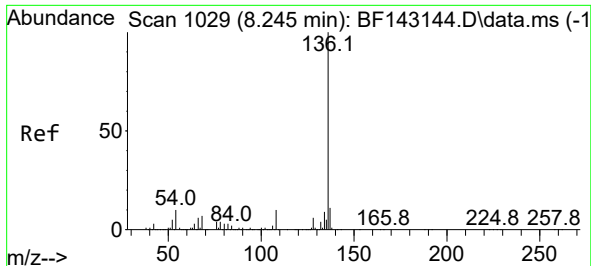
Tgt Ion: 99 Resp: 280182  
Ion Ratio Lower Upper  
99 100  
42 21.3 17.0 25.6  
71 34.5 27.7 41.5



#19  
n-Nitroso-di-n-propylamine  
Concen: 5.147 ng  
RT: 7.510 min Scan# 904  
Delta R.T. 0.135 min  
Lab File: BF143240.D  
Acq: 24 Jul 2025 18:25

Tgt Ion: 70 Resp: 23859  
Ion Ratio Lower Upper  
70 100  
42 56.5 52.5 78.7  
101 0.0 7.6 11.4#  
130 2.4 16.1 24.1#



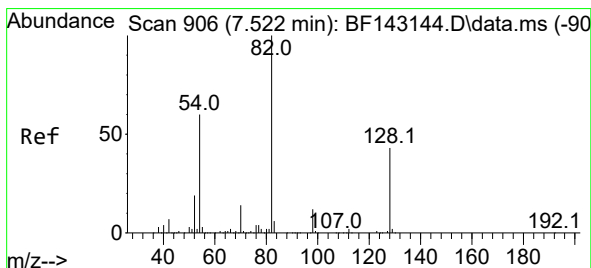
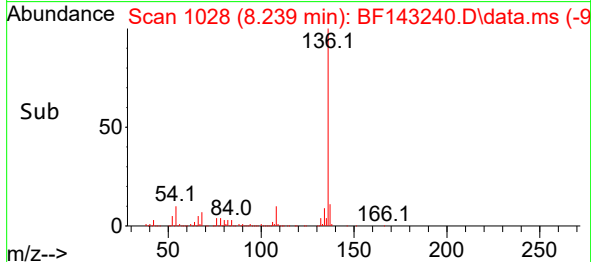
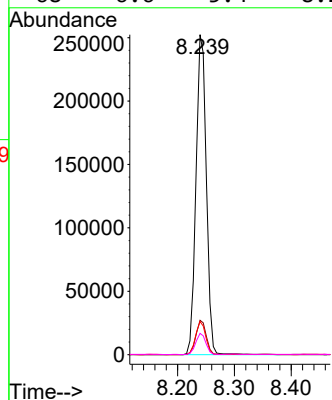
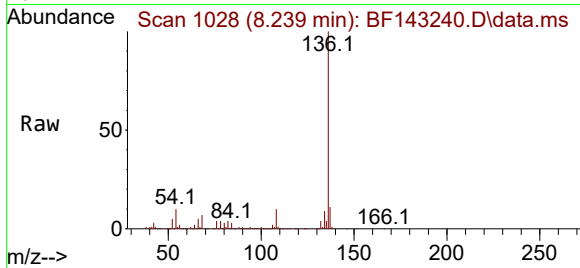


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.239 min Scan# 1028  
Delta R.T. -0.006 min  
Lab File: BF143240.D  
Acq: 24 Jul 2025 18:25

Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-07222025

Tgt Ion:136 Resp: 320973

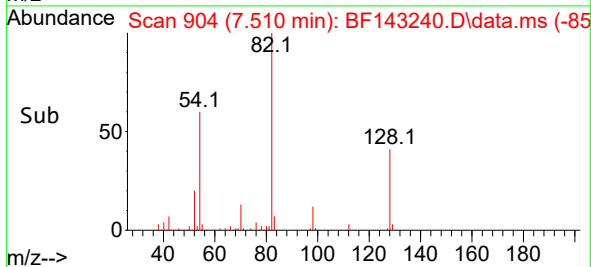
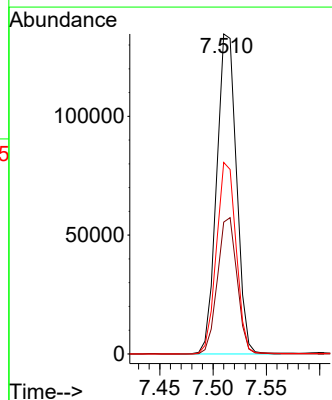
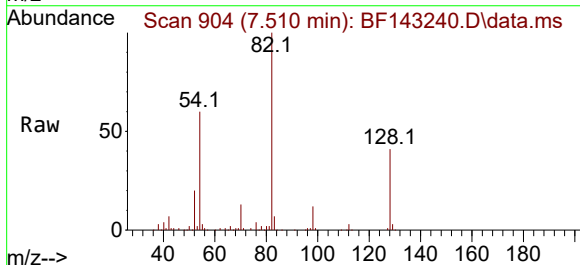
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.7  | 8.6   | 13.0  |
| 54  | 10.3  | 8.2   | 12.2  |
| 68  | 6.6   | 5.4   | 8.2   |

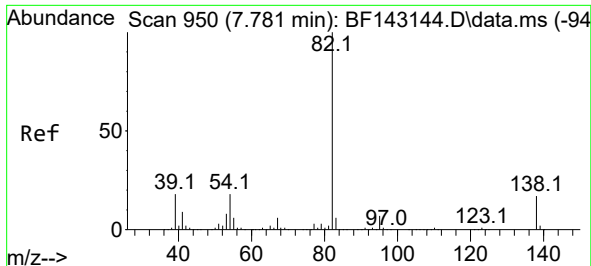


#23  
Nitrobenzene-d5  
Concen: 27.033 ng  
RT: 7.510 min Scan# 904  
Delta R.T. -0.012 min  
Lab File: BF143240.D  
Acq: 24 Jul 2025 18:25

Tgt Ion: 82 Resp: 174071

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 41.2  | 33.6  | 50.4  |
| 54  | 59.9  | 47.1  | 70.7  |

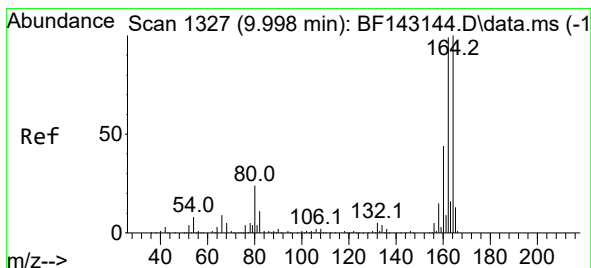
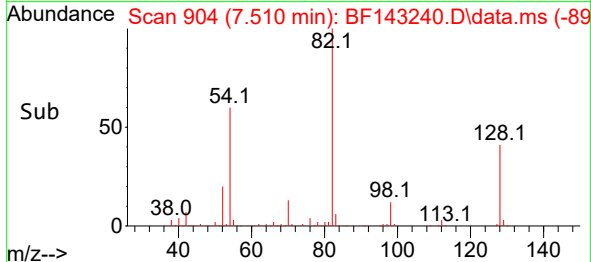
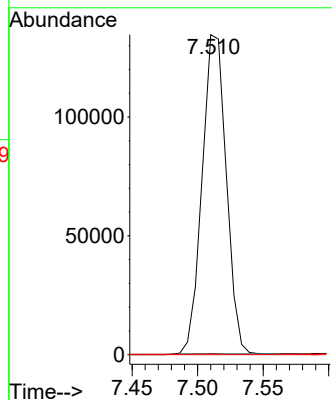
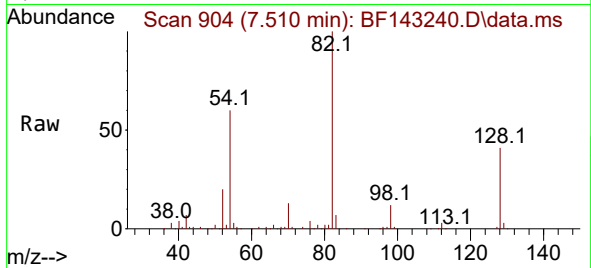




#25  
Isophorone  
Concen: 15.159 ng  
RT: 7.510 min Scan# 904  
Delta R.T. -0.271 min  
Lab File: BF143240.D  
Acq: 24 Jul 2025 18:25

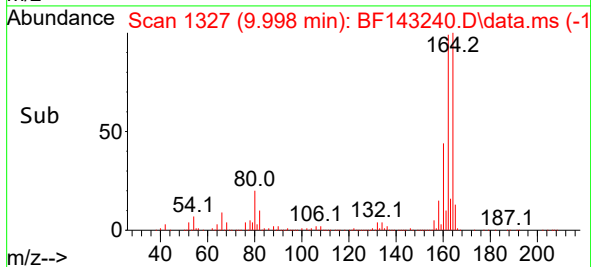
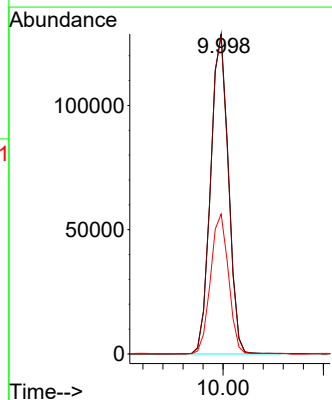
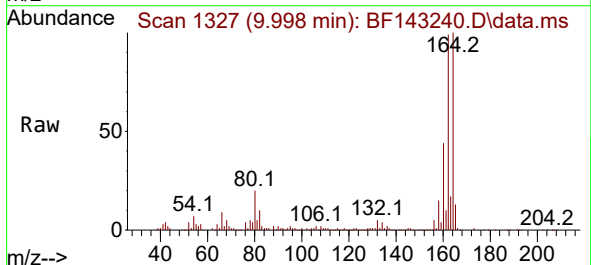
Instrument :  
BNA\_F  
ClientSampleId :  
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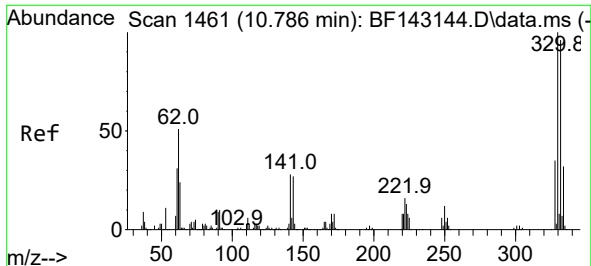
Tgt Ion: 82 Resp: 172311  
Ion Ratio Lower Upper  
82 100  
95 0.3 5.5 8.3#  
138 0.0 13.8 20.8#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.998 min Scan# 1327  
Delta R.T. 0.000 min  
Lab File: BF143240.D  
Acq: 24 Jul 2025 18:25

Tgt Ion: 164 Resp: 159082  
Ion Ratio Lower Upper  
164 100  
162 99.1 79.0 118.6  
160 43.8 35.1 52.7





#42

2,4,6-Tribromophenol

Concen: 40.754 ng

RT: 10.780 min Scan# 1460

Delta R.T. -0.006 min

Lab File: BF143240.D

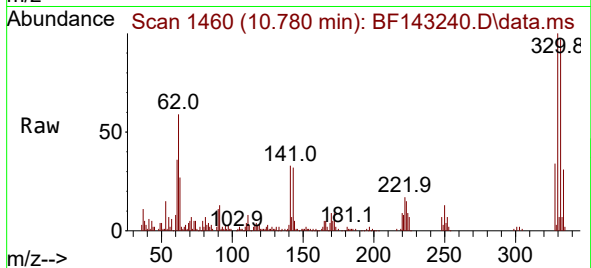
Acq: 24 Jul 2025 18:25

Instrument :

BNA\_F

ClientSampleId :

SU-03-07222025



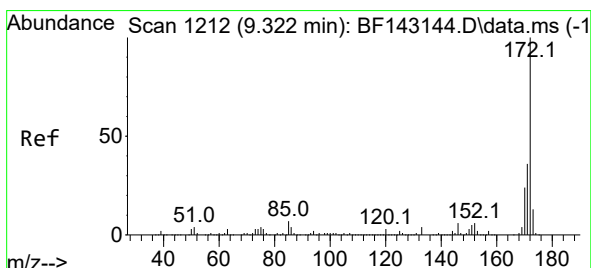
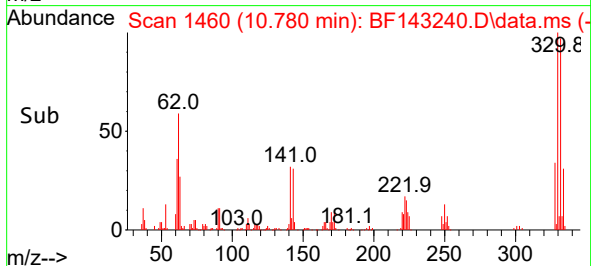
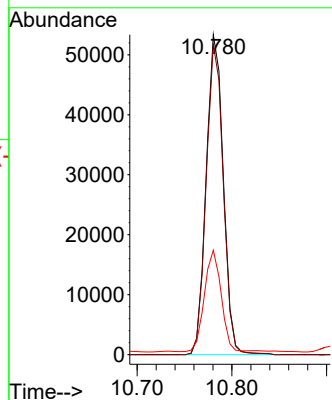
Tgt Ion:330 Resp: 66976

Ion Ratio Lower Upper

330 100

332 96.5 76.7 115.1

141 31.0 23.3 34.9



#45

2-Fluorobiphenyl

Concen: 28.573 ng

RT: 9.316 min Scan# 1211

Delta R.T. -0.006 min

Lab File: BF143240.D

Acq: 24 Jul 2025 18:25

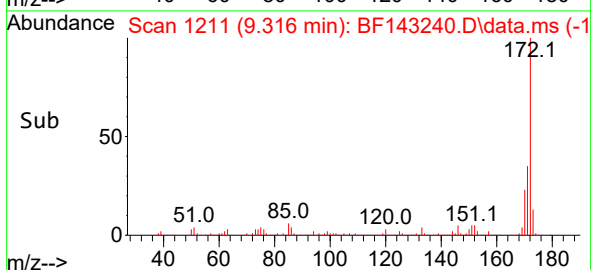
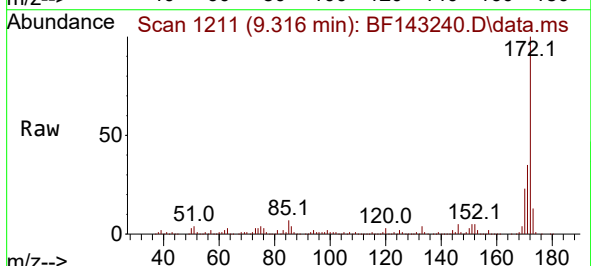
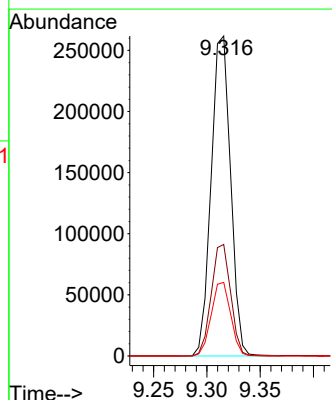
Tgt Ion:172 Resp: 332362

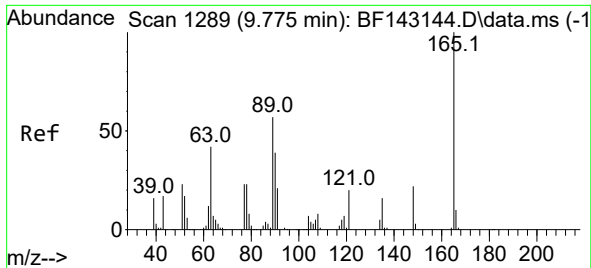
Ion Ratio Lower Upper

172 100

171 34.9 28.6 42.8

170 23.0 18.8 28.2

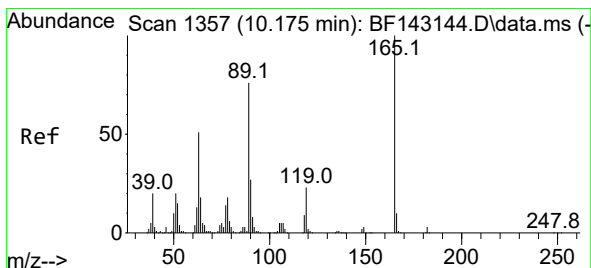
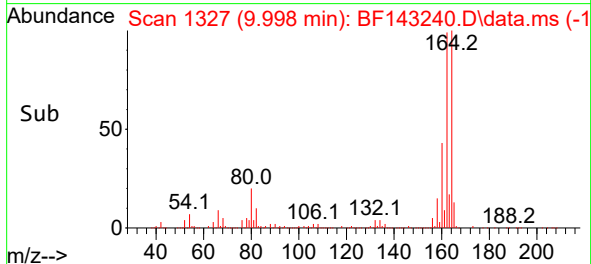
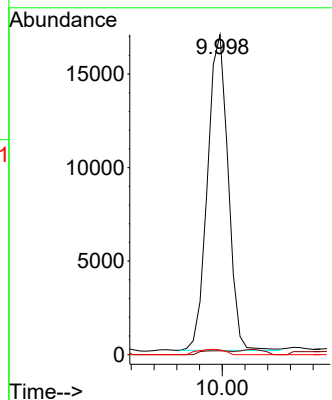
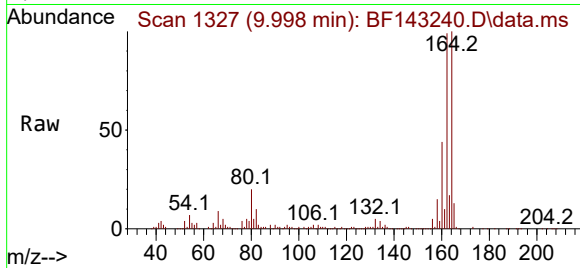




#51  
2,6-Dinitrotoluene  
Concen: 10.061 ng  
RT: 9.998 min Scan# 11  
Delta R.T. 0.223 min  
Lab File: BF143240.D  
Acq: 24 Jul 2025 18:25

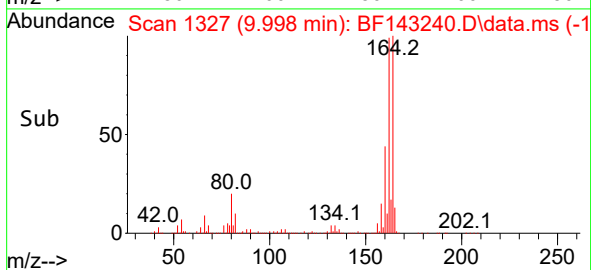
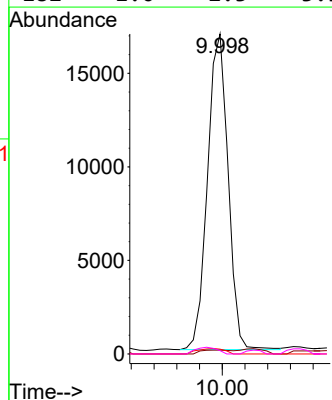
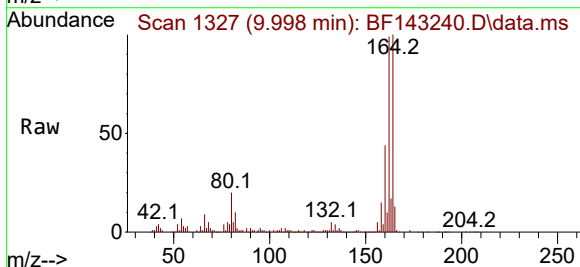
Instrument :  
BNA\_F  
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SU-03-07222025

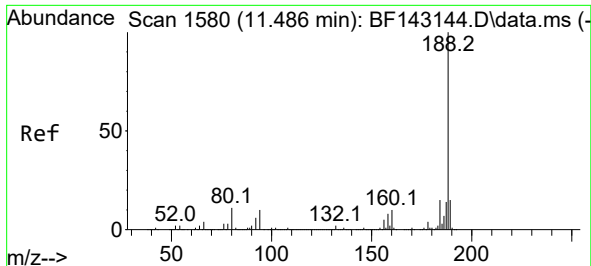
Tgt Ion:165 Resp: 21223  
Ion Ratio Lower Upper  
165 100  
63 1.2 49.4 74.2#  
89 1.5 46.2 69.2#



#57  
2,4-Dinitrotoluene  
Concen: 8.019 ng  
RT: 9.998 min Scan# 1327  
Delta R.T. -0.176 min  
Lab File: BF143240.D  
Acq: 24 Jul 2025 18:25

Tgt Ion:165 Resp: 21223  
Ion Ratio Lower Upper  
165 100  
63 1.2 41.0 61.4#  
89 1.5 61.1 91.7#  
182 1.0 2.3 3.5#

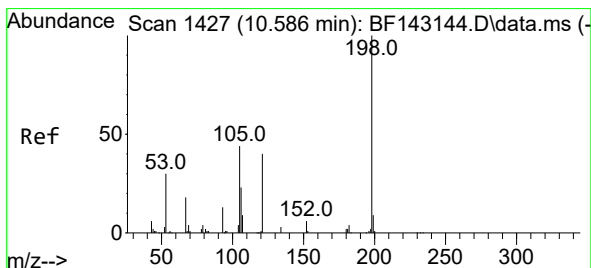
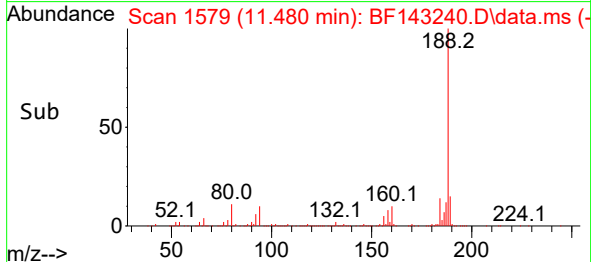
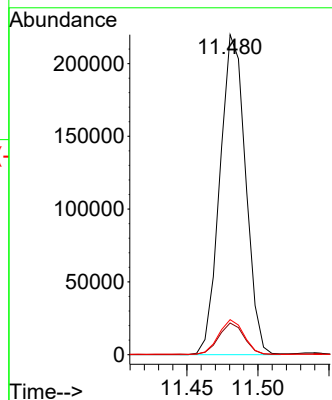
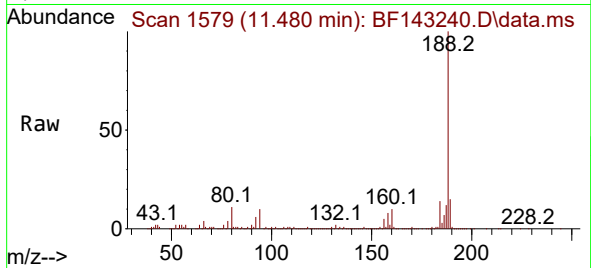




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.480 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: BF143240.D  
Acq: 24 Jul 2025 18:25

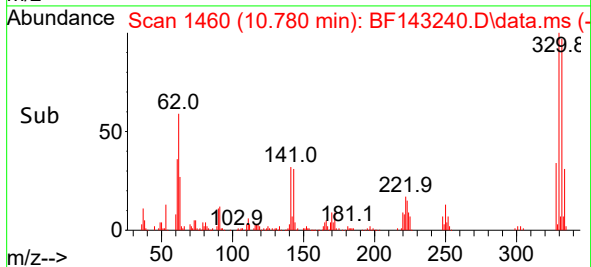
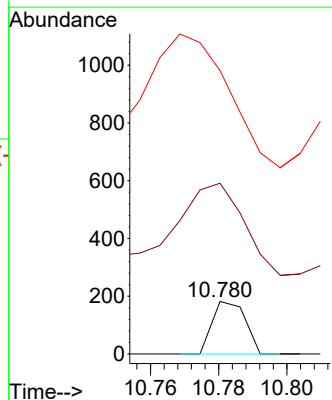
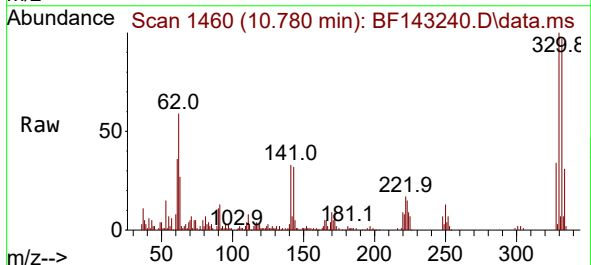
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-07222025

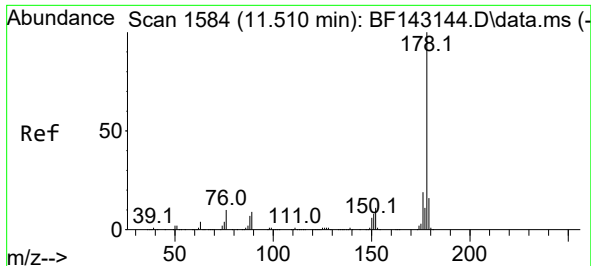
Tgt Ion:188 Resp: 276285  
Ion Ratio Lower Upper  
188 100  
94 9.9 8.3 12.5  
80 10.9 9.0 13.6



#65  
4,6-Dinitro-2-methylphenol  
Concen: 5.487 ng  
RT: 10.780 min Scan# 1460  
Delta R.T. 0.194 min  
Lab File: BF143240.D  
Acq: 24 Jul 2025 18:25

Tgt Ion:198 Resp: 122  
Ion Ratio Lower Upper  
198 100  
51 324.7 37.2 77.2#  
105 539.0 24.8 64.8#

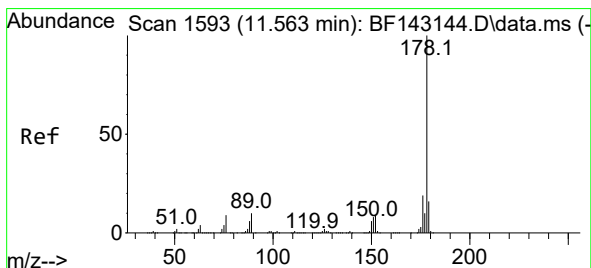
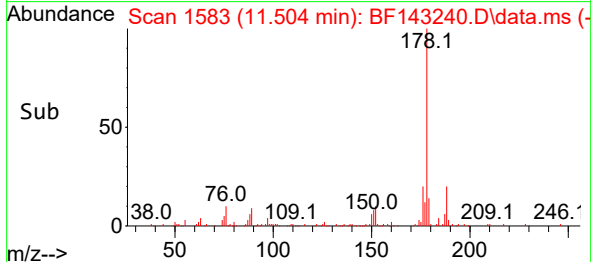
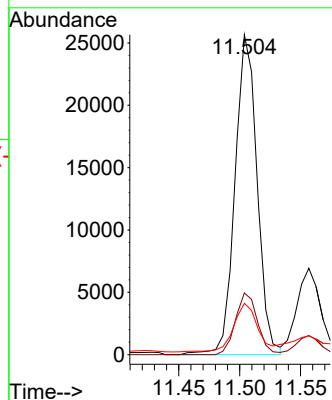
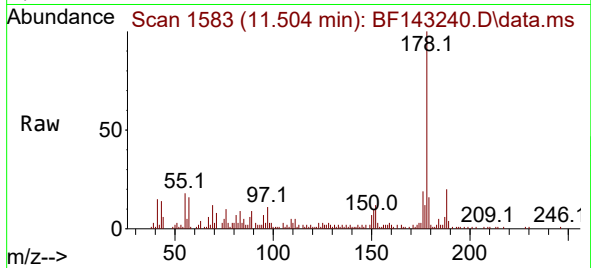




#71  
Phenanthrene  
Concen: 2.218 ng  
RT: 11.504 min Scan# 1583  
Delta R.T. -0.006 min  
Lab File: BF143240.D  
Acq: 24 Jul 2025 18:25

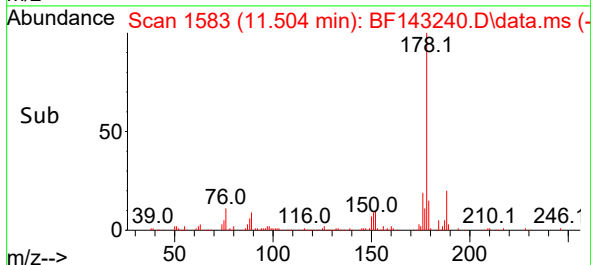
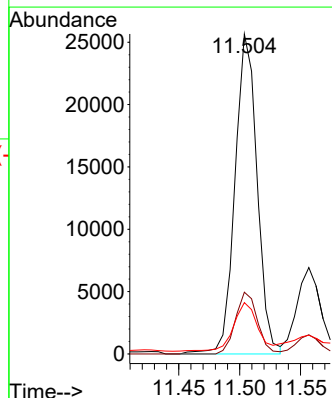
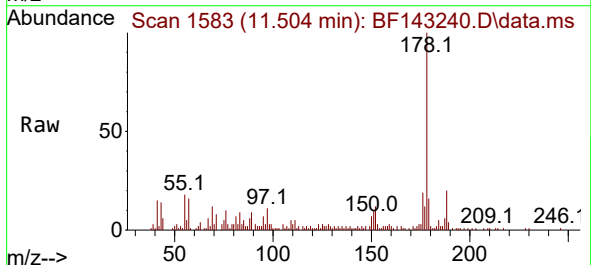
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-07222025

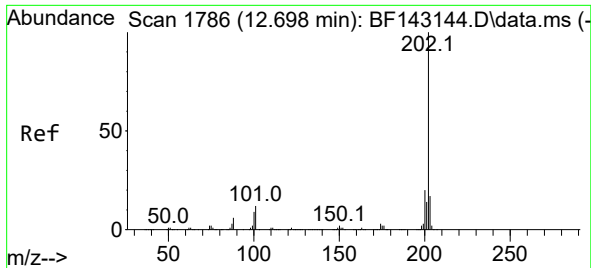
Tgt Ion:178 Resp: 32534  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.3 22.9  
179 16.0 12.5 18.7



#72  
Anthracene  
Concen: 2.174 ng  
RT: 11.504 min Scan# 1583  
Delta R.T. -0.059 min  
Lab File: BF143240.D  
Acq: 24 Jul 2025 18:25

Tgt Ion:178 Resp: 32534  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.0 22.4  
179 16.0 12.5 18.7

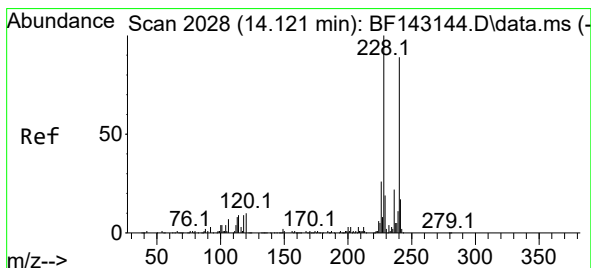
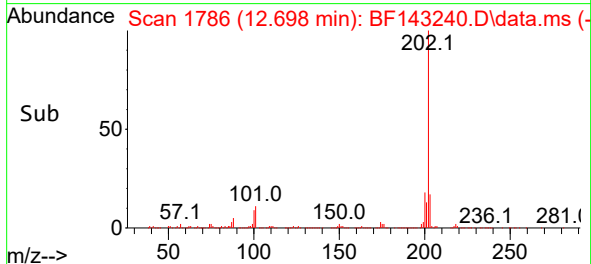
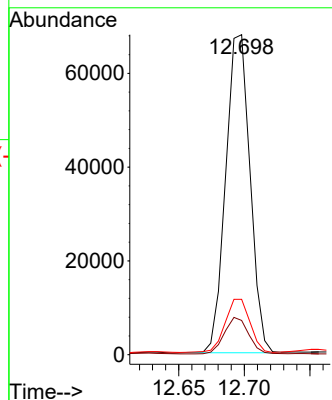
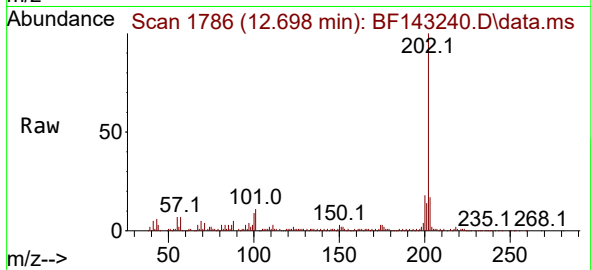




#75  
Fluoranthene  
Concen: 6.515 ng  
RT: 12.698 min Scan# 1786  
Delta R.T. -0.000 min  
Lab File: BF143240.D  
Acq: 24 Jul 2025 18:25

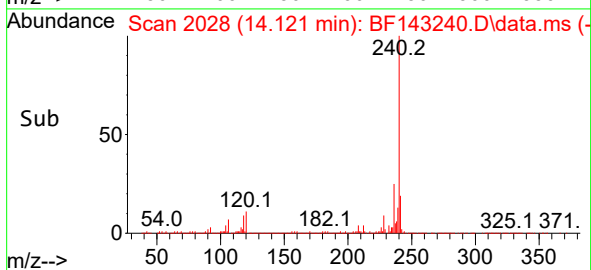
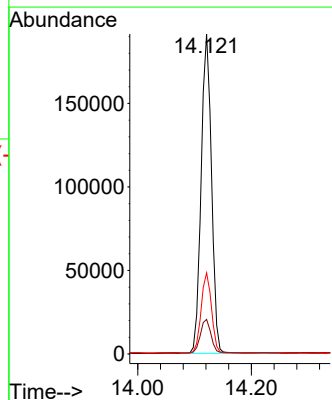
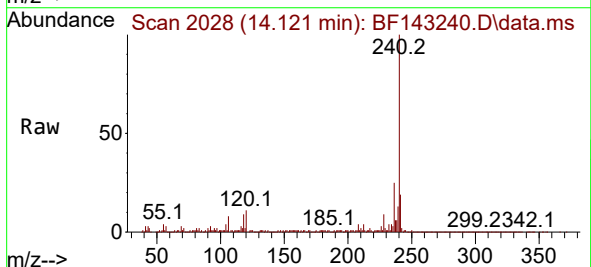
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-07222025

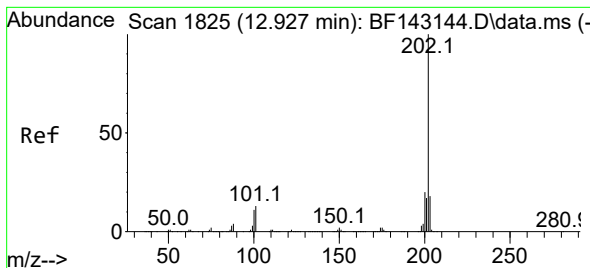
Tgt Ion:202 Resp: 87725  
Ion Ratio Lower Upper  
202 100  
101 10.7 0.0 31.7  
203 17.3 0.0 37.4



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.121 min Scan# 2028  
Delta R.T. -0.000 min  
Lab File: BF143240.D  
Acq: 24 Jul 2025 18:25

Tgt Ion:240 Resp: 242202  
Ion Ratio Lower Upper  
240 100  
120 10.8 9.4 14.2  
236 25.3 20.2 30.4





#78

Pyrene

Concen: 4.023 ng

RT: 12.921 min Scan# 1824

Delta R.T. -0.006 min

Lab File: BF143240.D

Acq: 24 Jul 2025 18:25

Instrument :

BNA\_F

ClientSampleId :

SU-03-07222025

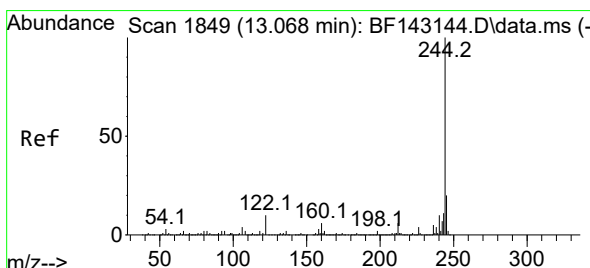
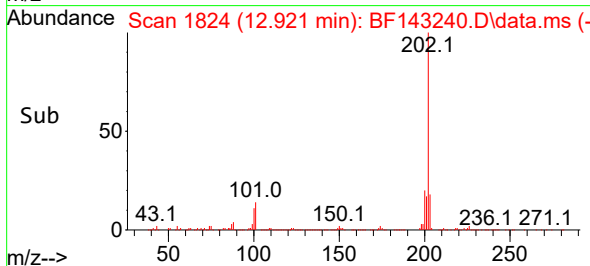
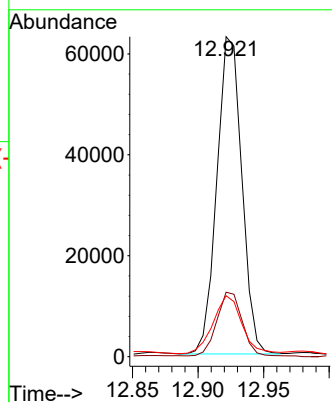
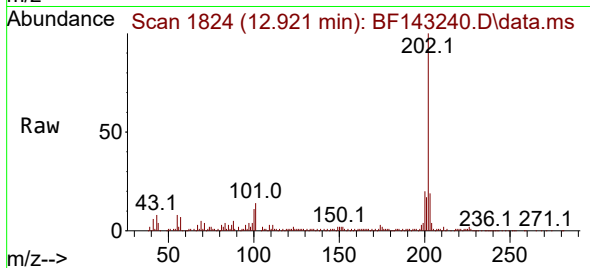
Tgt Ion:202 Resp: 83156

Ion Ratio Lower Upper

202 100

200 20.1 15.7 23.5

203 19.0 14.2 21.2



#79

Terphenyl-d14

Concen: 23.436 ng

RT: 13.063 min Scan# 1848

Delta R.T. -0.006 min

Lab File: BF143240.D

Acq: 24 Jul 2025 18:25

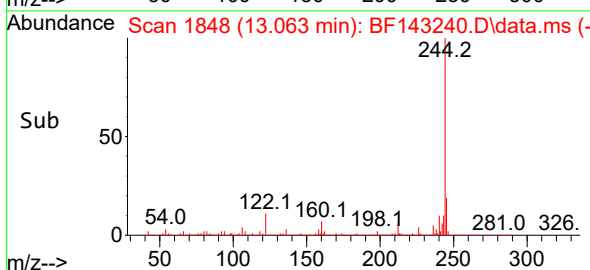
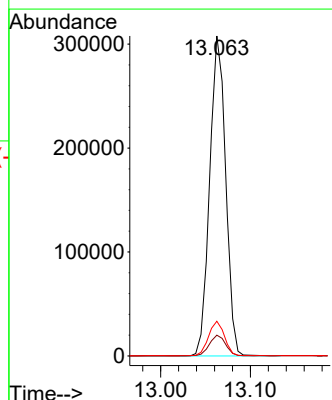
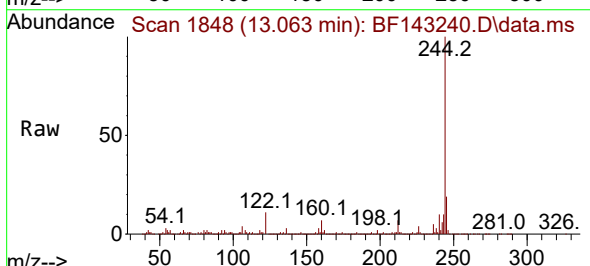
Tgt Ion:244 Resp: 381441

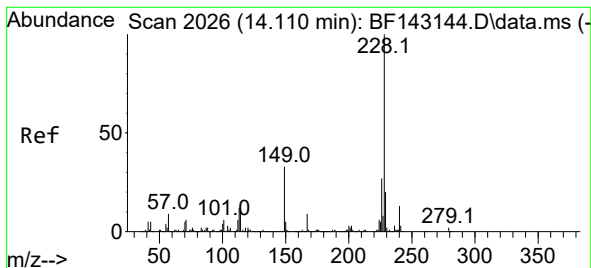
Ion Ratio Lower Upper

244 100

212 6.5 5.2 7.8

122 10.8 8.2 12.2





#81

Benzo(a)anthracene

Concen: 2.914 ng

RT: 14.110 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BF143240.D

Acq: 24 Jul 2025 18:25

Instrument :

BNA\_F

ClientSampleId :

SU-03-07222025

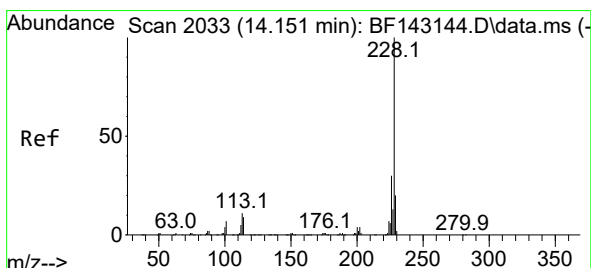
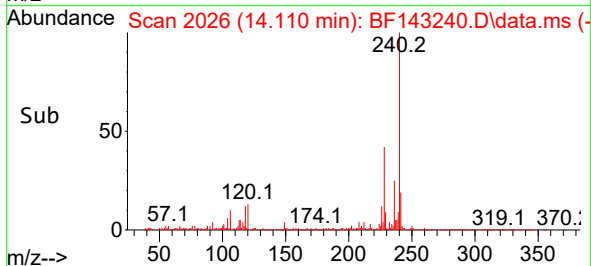
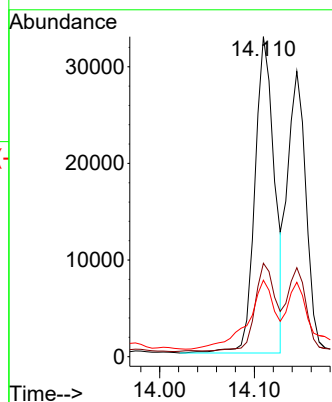
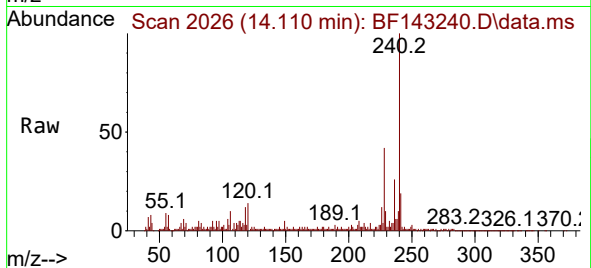
Tgt Ion:228 Resp: 47254

Ion Ratio Lower Upper

228 100

226 29.2 21.7 32.5

229 23.9 15.8 23.6#



#83

Chrysene

Concen: 2.666 ng

RT: 14.145 min Scan# 2032

Delta R.T. -0.006 min

Lab File: BF143240.D

Acq: 24 Jul 2025 18:25

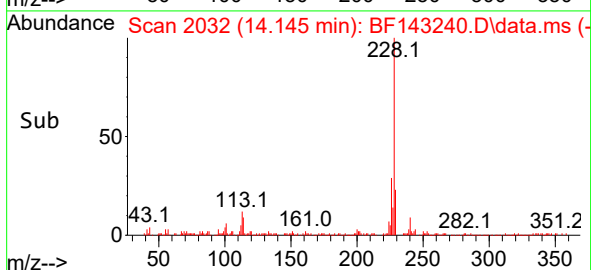
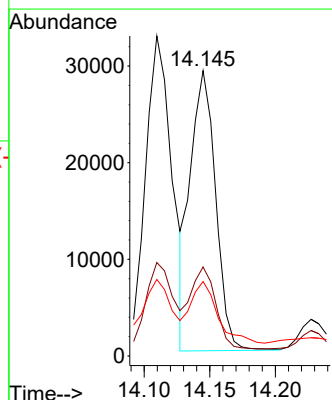
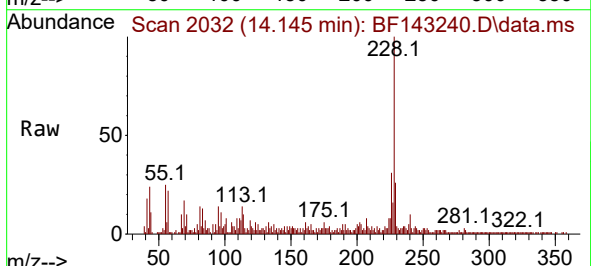
Tgt Ion:228 Resp: 38861

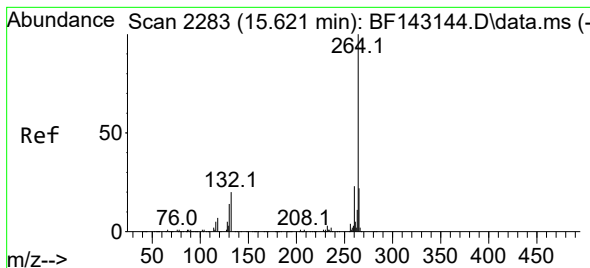
Ion Ratio Lower Upper

228 100

226 31.2 23.8 35.8

229 26.1 15.6 23.4#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.627 min Scan# 2283

Delta R.T. 0.006 min

Lab File: BF143240.D

Acq: 24 Jul 2025 18:25

Instrument :

BNA\_F

ClientSampleId :

SU-03-07222025

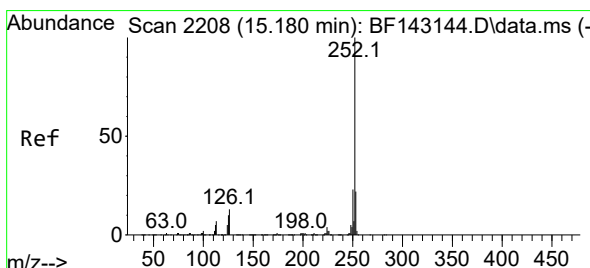
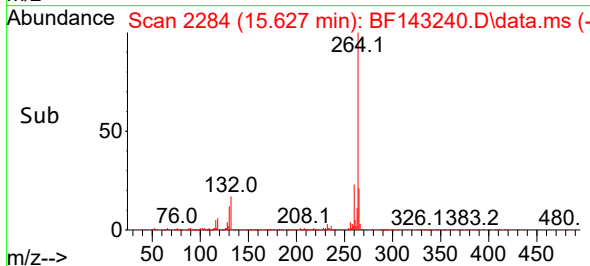
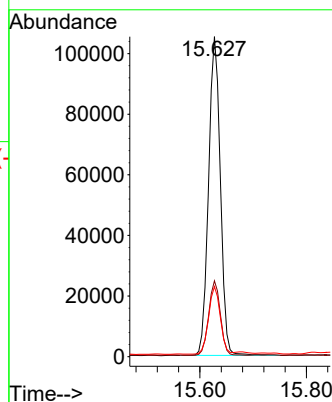
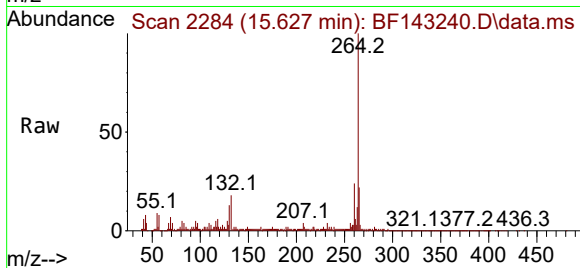
Tgt Ion:264 Resp: 161846

Ion Ratio Lower Upper

264 100

260 23.7 18.5 27.7

265 21.9 17.4 26.2



#88

Benzo(b)fluoranthene

Concen: 5.421 ng

RT: 15.180 min Scan# 2208

Delta R.T. -0.000 min

Lab File: BF143240.D

Acq: 24 Jul 2025 18:25

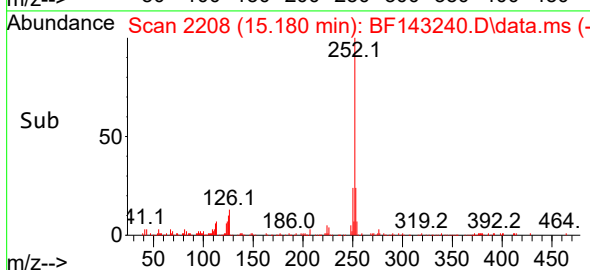
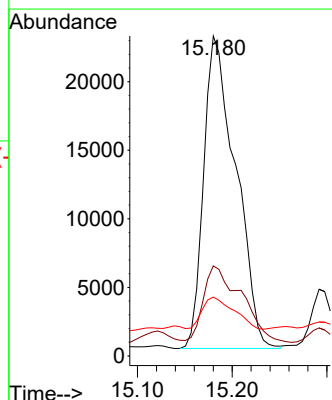
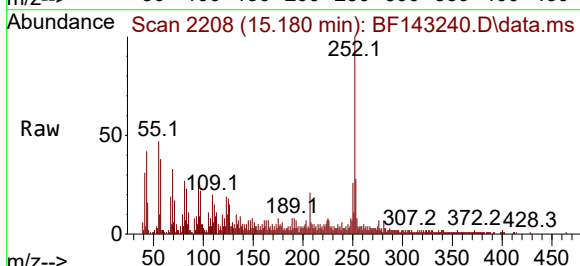
Tgt Ion:252 Resp: 53604

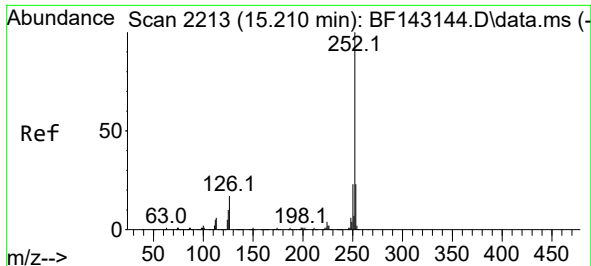
Ion Ratio Lower Upper

252 100

253 28.2 17.5 26.3#

125 18.4 8.0 12.0#

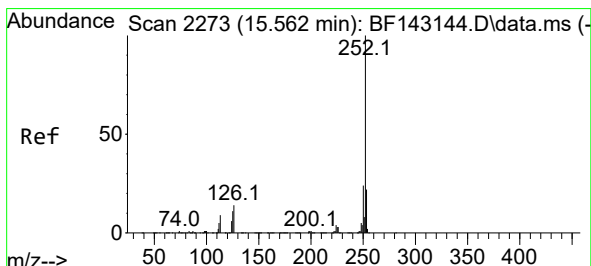
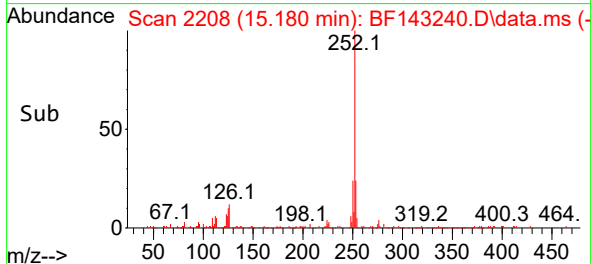
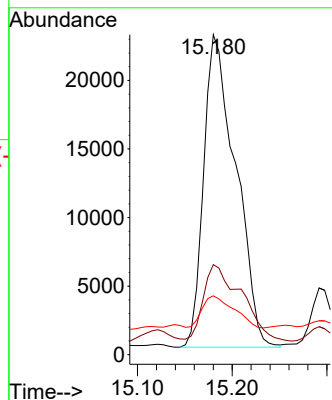
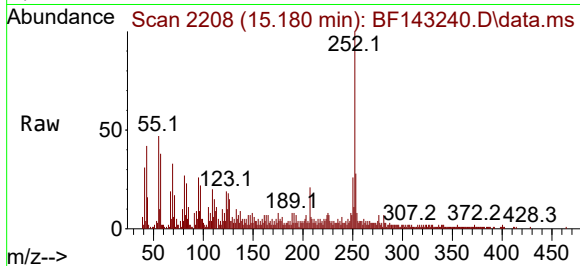




#89  
Benzo(k)fluoranthene  
Concen: 6.076 ng  
RT: 15.180 min Scan# 21  
Delta R.T. -0.029 min  
Lab File: BF143240.D  
Acq: 24 Jul 2025 18:25

Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-07222025

Tgt Ion:252 Resp: 53604  
Ion Ratio Lower Upper  
252 100  
253 28.2 17.8 26.6#  
125 18.4 8.1 12.1#



#90  
Benzo(a)pyrene  
Concen: 2.852 ng  
RT: 15.557 min Scan# 2272  
Delta R.T. -0.006 min  
Lab File: BF143240.D  
Acq: 24 Jul 2025 18:25

Tgt Ion:252 Resp: 25983  
Ion Ratio Lower Upper  
252 100  
253 26.4 17.3 25.9#  
125 20.4 8.6 13.0#

