

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090425\  
 Data File : BF143640.D  
 Acq On : 04 Sep 2025 13:15  
 Operator : RC/JU  
 Sample : Q2893-02  
 Misc : LOQ-SOIL 10PPM  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LOQ-SOIL-02-QT3-2025

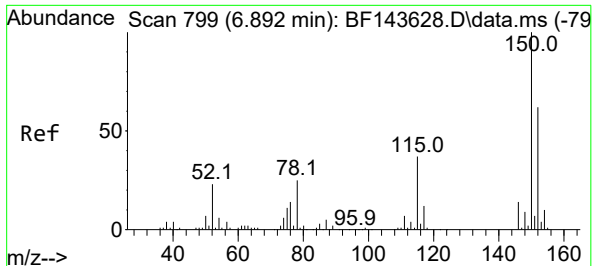
Quant Time: Sep 04 14:01:17 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF090325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 03 18:35:49 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.892  | 152  | 73601    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.169  | 136  | 282768   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.928  | 164  | 162540   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.410 | 188  | 270318   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 14.045 | 240  | 187689   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 15.521 | 264  | 160476   | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.504  | 112  | 510604   | 122.901 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.510  | 99   | 644436   | 124.977 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.451  | 82   | 405005   | 100.666 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.716 | 330  | 194788   | 143.311 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.245  | 172  | 884463   | 86.937  | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.998 | 244  | 991711   | 88.040  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 4) n-Nitrosodimethylamine     | 3.369  | 42   | 19390    | 8.990   | ng    | 93       |
| 9) Benzaldehyde               | 6.440  | 77   | 37793    | 9.864   | ng    | 99       |
| 15) Benzyl Alcohol            | 7.022  | 79   | 37770    | 9.640   | ng    | 99       |
| 20) 3+4-Methylphenols         | 7.281  | 107  | 48271    | 10.194  | ng    | 96       |
| 32) Benzoic acid              | 7.863  | 122  | 15115    | 12.834  | ng    | 91       |
| 35) Caprolactam               | 8.569  | 113  | 10250    | 9.875   | ng    | 92       |
| 41) Hexachlorocyclopentadiene | 9.039  | 237  | 26165    | 11.995  | ng    | 99       |
| 54) 2,4-Dinitrophenol         | 9.969  | 184  | 4659     | 13.939  | ng    | # 1      |
| 56) 4-Nitrophenol             | 10.010 | 139  | 14987    | 9.821   | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 10.504 | 198  | 7613     | 13.997  | ng    | 99       |
| 70) Pentachlorophenol         | 11.210 | 266  | 16913    | 9.143   | ng    | 98       |
| 77) Benzidine                 | 12.745 | 184  | 63582    | 14.807  | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 13.998 | 252  | 33376    | 10.071  | ng    | 98       |
| 85) Di-n-octyl phthalate      | 14.645 | 149  | 80304    | 7.211   | ng    | 98       |
| -----                         |        |      |          |         |       |          |

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

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QLast Update : Wed Sep 03 18:35:49 2025  
Response via : Initial Calibration

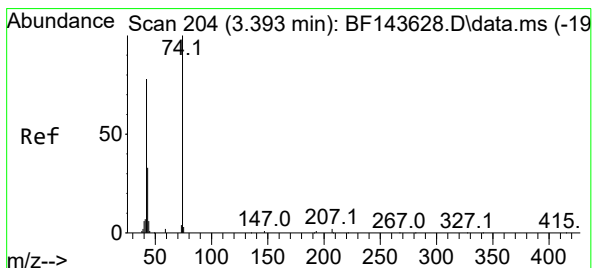
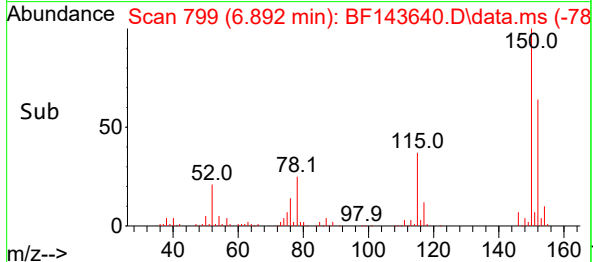
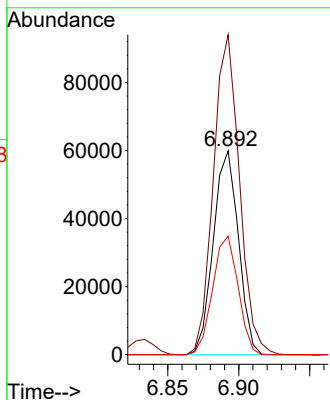
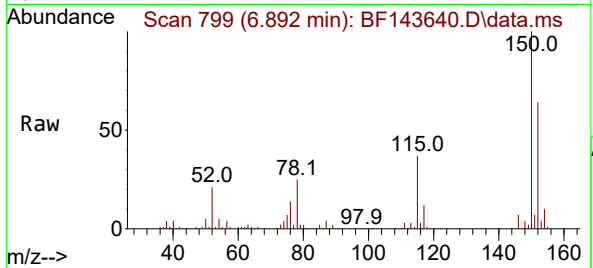




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.892 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: BF143640.D  
Acq: 04 Sep 2025 13:15

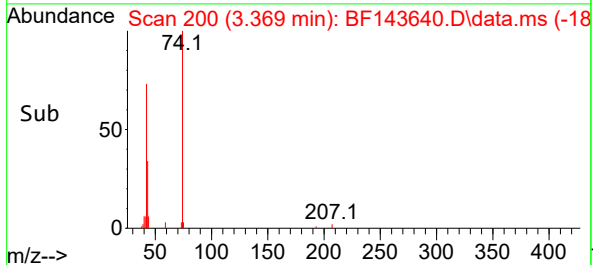
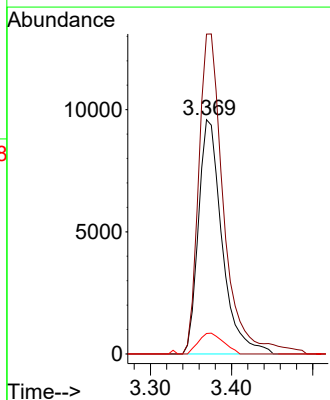
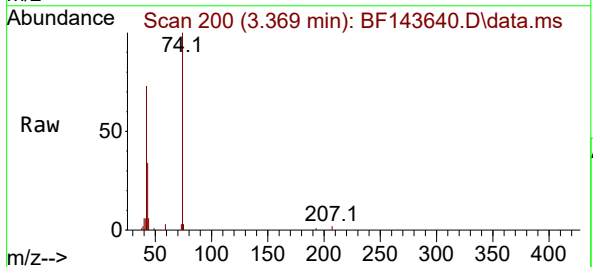
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BNA\_F  
ClientSampleId :  
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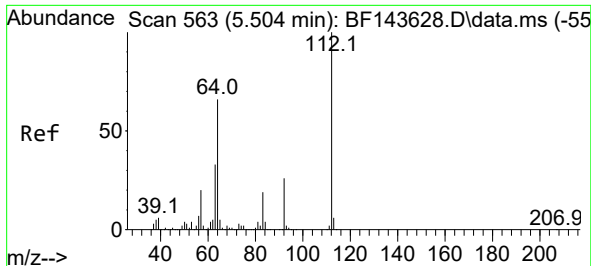
Tgt Ion:152 Resp: 73601  
Ion Ratio Lower Upper  
152 100  
150 157.0 128.4 192.6  
115 58.1 47.9 71.9



#4  
n-Nitrosodimethylamine  
Concen: 8.990 ng  
RT: 3.369 min Scan# 200  
Delta R.T. -0.024 min  
Lab File: BF143640.D  
Acq: 04 Sep 2025 13:15

Tgt Ion: 42 Resp: 19390  
Ion Ratio Lower Upper  
42 100  
74 136.6 102.9 154.3  
44 8.7 6.5 9.7

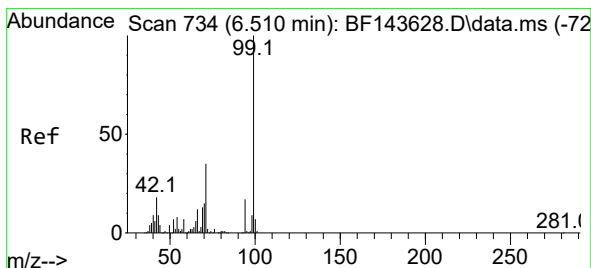
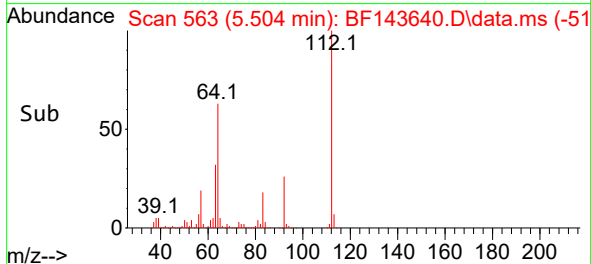
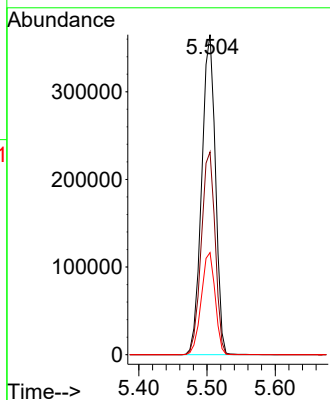
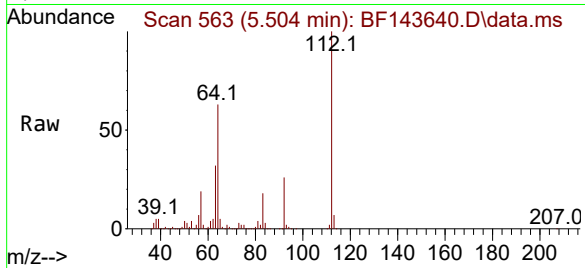




#5  
2-Fluorophenol  
Concen: 122.901 ng  
RT: 5.504 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BF143640.D  
Acq: 04 Sep 2025 13:15

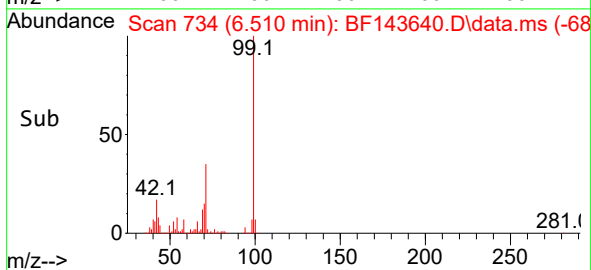
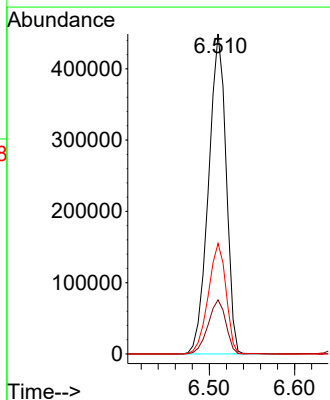
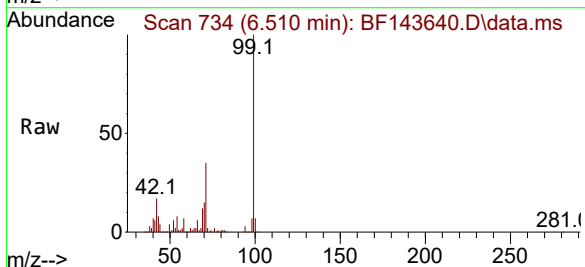
Instrument :  
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ClientSampleId :  
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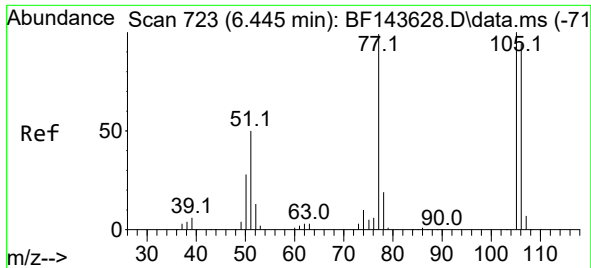
Tgt Ion:112 Resp: 510604  
Ion Ratio Lower Upper  
112 100  
64 63.4 52.7 79.1  
63 31.9 26.5 39.7



#7  
Phenol-d6  
Concen: 124.977 ng  
RT: 6.510 min Scan# 734  
Delta R.T. -0.000 min  
Lab File: BF143640.D  
Acq: 04 Sep 2025 13:15

Tgt Ion: 99 Resp: 644436  
Ion Ratio Lower Upper  
99 100  
42 16.9 14.6 22.0  
71 34.5 28.0 42.0

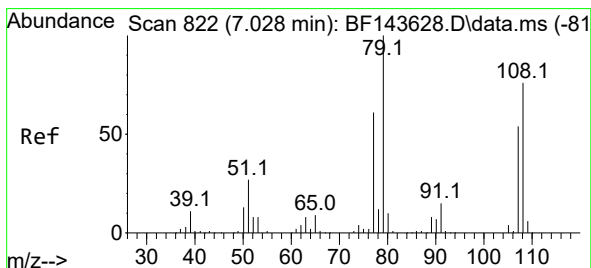
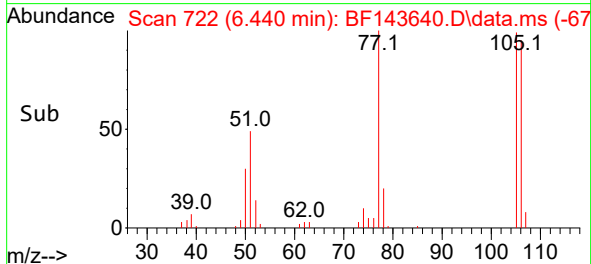
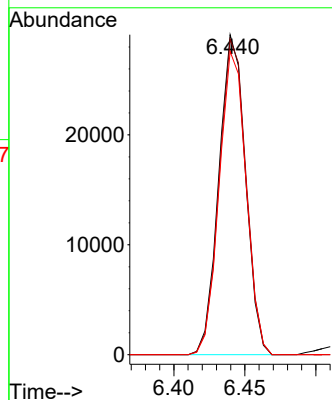
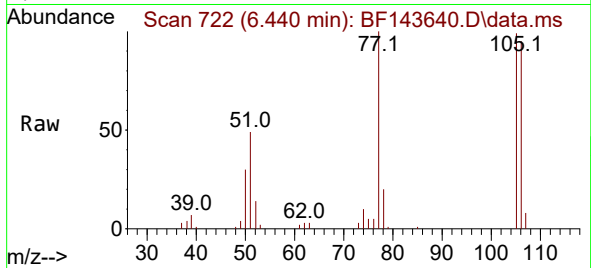




#9  
Benzaldehyde  
Concen: 9.864 ng  
RT: 6.440 min Scan# 71  
Delta R.T. -0.005 min  
Lab File: BF143640.D  
Acq: 04 Sep 2025 13:15

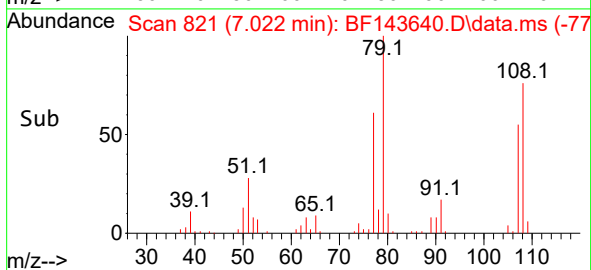
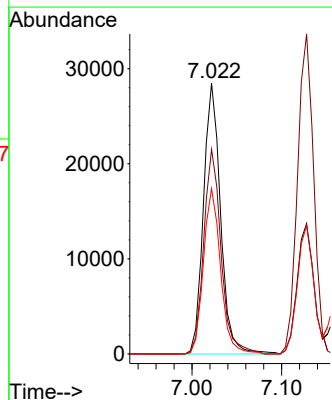
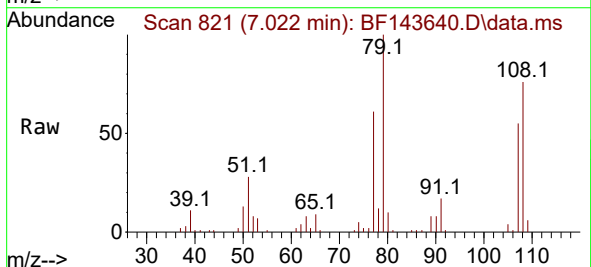
Instrument :  
BNA\_F  
ClientSampleId :  
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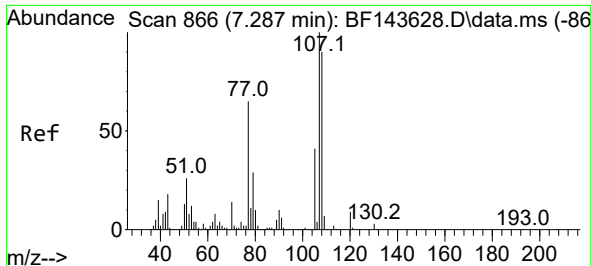
Tgt Ion: 77 Resp: 37793  
Ion Ratio Lower Upper  
77 100  
105 98.6 80.9 120.9  
106 94.8 75.1 115.1



#15  
Benzyl Alcohol  
Concen: 9.640 ng  
RT: 7.022 min Scan# 821  
Delta R.T. -0.006 min  
Lab File: BF143640.D  
Acq: 04 Sep 2025 13:15

Tgt Ion: 79 Resp: 37770  
Ion Ratio Lower Upper  
79 100  
108 75.6 60.9 91.3  
77 61.0 48.4 72.6

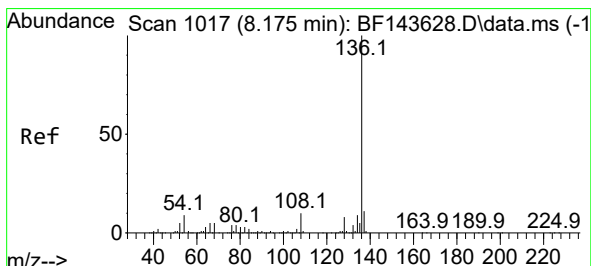
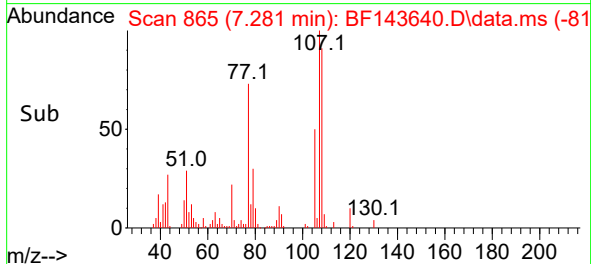
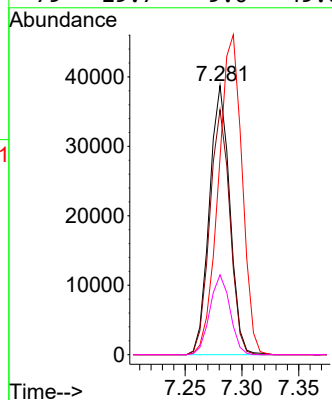
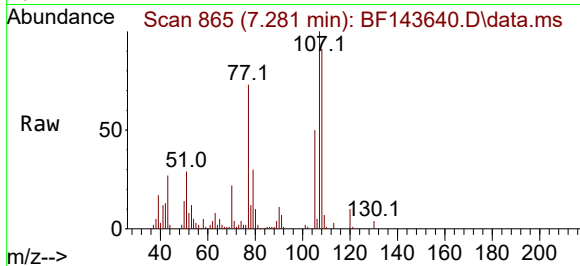




#20  
3+4-Methylphenols  
Concen: 10.194 ng  
RT: 7.281 min Scan# 80  
Delta R.T. -0.006 min  
Lab File: BF143640.D  
Acq: 04 Sep 2025 13:15

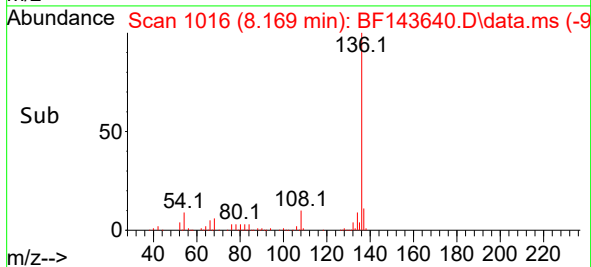
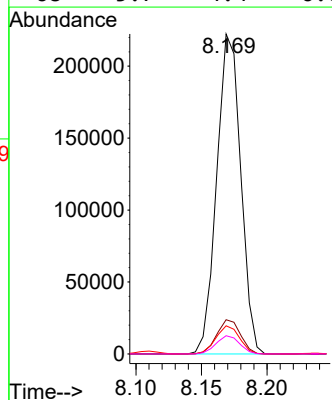
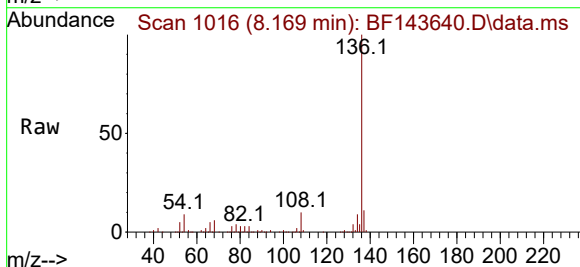
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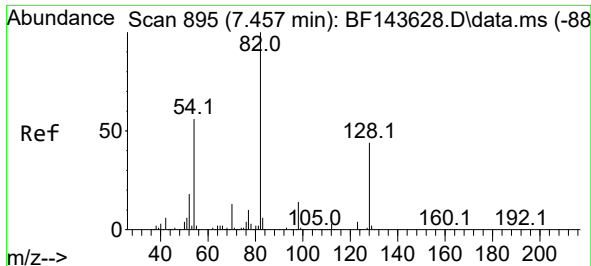
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 48271 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 91.1  | 69.6  | 109.6 |
| 77       | 73.1  | 45.5  | 85.5  |
| 79       | 29.7  | 9.0   | 49.0  |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.169 min Scan# 1016  
Delta R.T. -0.006 min  
Lab File: BF143640.D  
Acq: 04 Sep 2025 13:15

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 282768 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 8.6   | 12.8   |
| 54       | 8.8   | 7.3   | 10.9   |
| 68       | 5.7   | 4.4   | 6.6    |

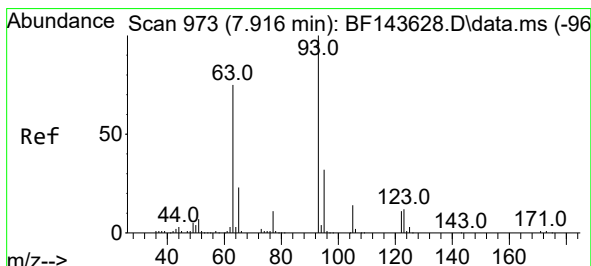
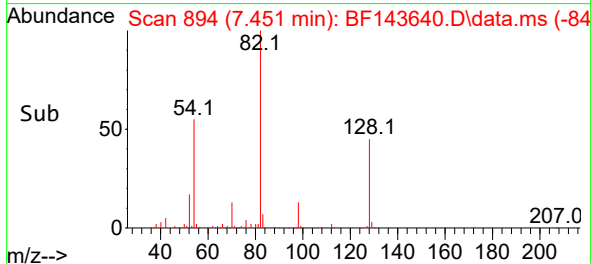
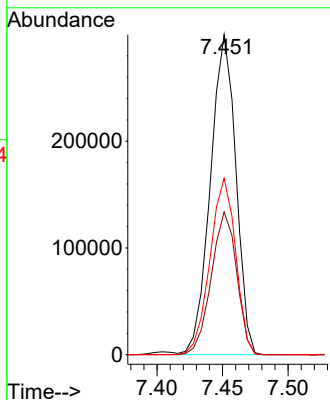
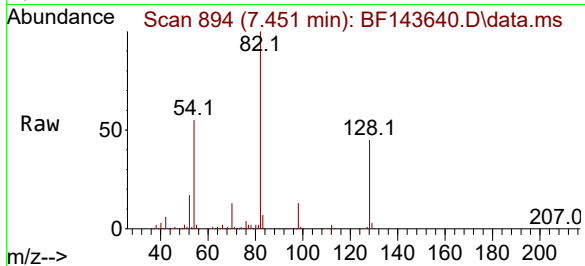




#23  
Nitrobenzene-d5  
Concen: 100.666 ng  
RT: 7.451 min Scan# 894  
Delta R.T. -0.006 min  
Lab File: BF143640.D  
Acq: 04 Sep 2025 13:15

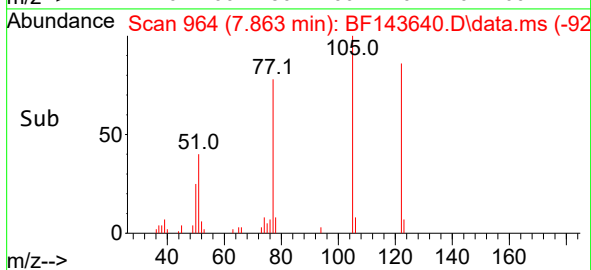
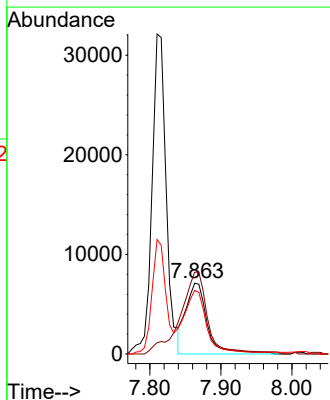
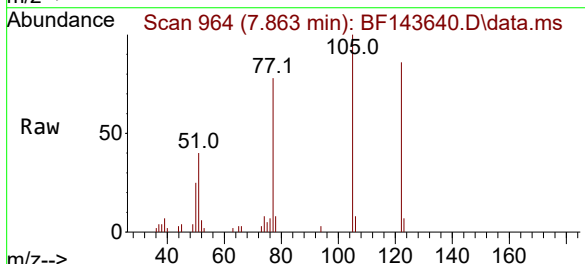
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BNA\_F  
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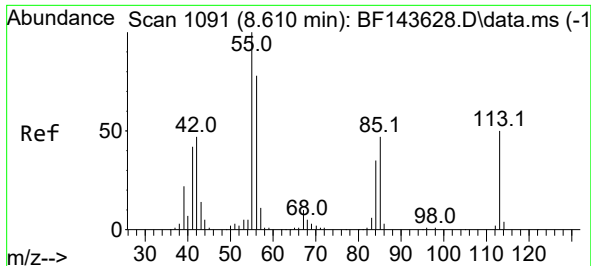
Tgt Ion: 82 Resp: 405005  
Ion Ratio Lower Upper  
82 100  
128 44.6 34.7 52.1  
54 55.1 44.8 67.2



#32  
Benzoic acid  
Concen: 12.834 ng  
RT: 7.863 min Scan# 964  
Delta R.T. -0.053 min  
Lab File: BF143640.D  
Acq: 04 Sep 2025 13:15

Tgt Ion:122 Resp: 15115  
Ion Ratio Lower Upper  
122 100  
105 115.8 105.9 145.9  
77 89.9 78.6 118.6

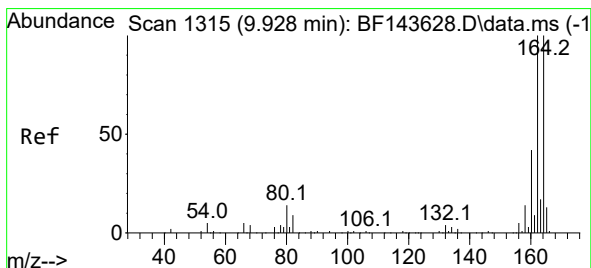
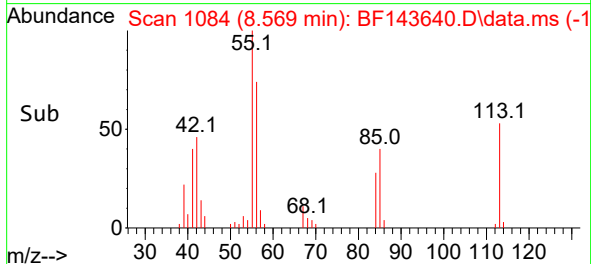
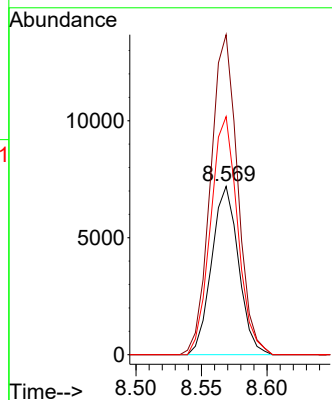
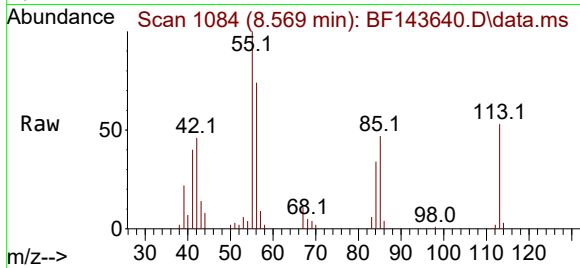




#35  
 Caprolactam  
 Concen: 9.875 ng  
 RT: 8.569 min Scan# 1091  
 Delta R.T. -0.041 min  
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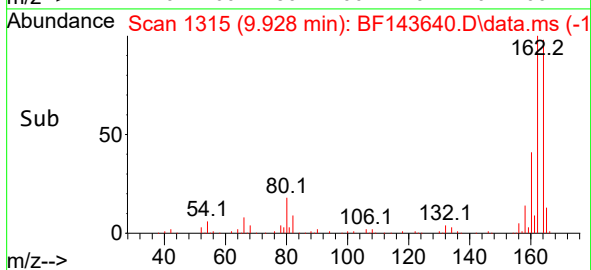
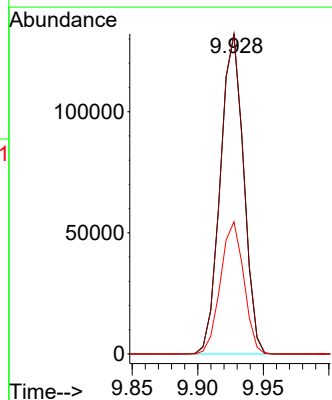
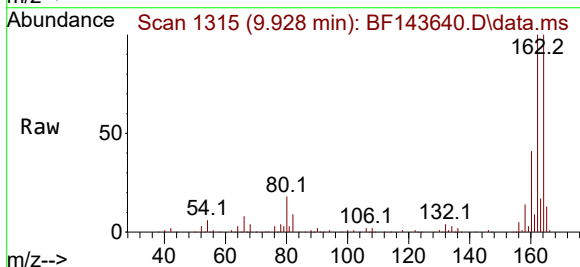
Instrument :  
 BNA\_F  
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Tgt Ion:113 Resp: 10250  
 Ion Ratio Lower Upper  
 113 100  
 55 190.1 180.5 220.5  
 56 141.4 134.8 174.8

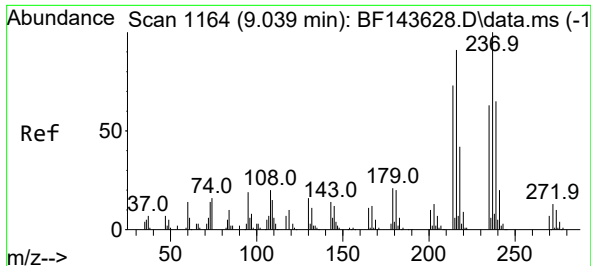


#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.928 min Scan# 1315  
 Delta R.T. -0.000 min  
 Lab File: BF143640.D  
 Acq: 04 Sep 2025 13:15

Tgt Ion:164 Resp: 162540  
 Ion Ratio Lower Upper  
 164 100  
 162 100.3 80.3 120.5  
 160 41.5 34.0 51.0



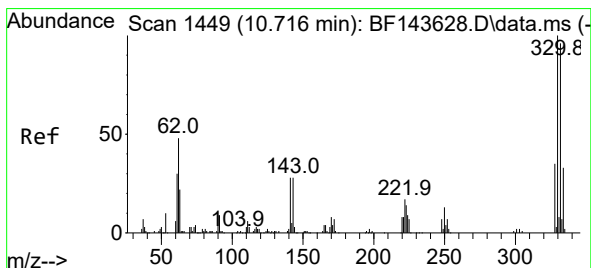
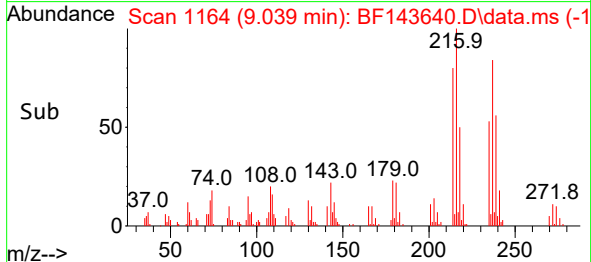
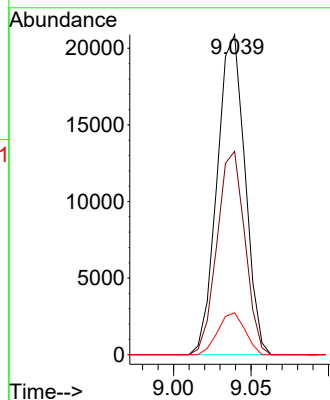
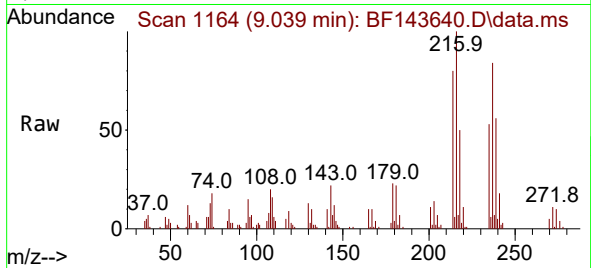




#41  
Hexachlorocyclopentadiene  
Concen: 11.995 ng  
RT: 9.039 min Scan# 1164  
Delta R.T. -0.000 min  
Lab File: BF143640.D  
Acq: 04 Sep 2025 13:15

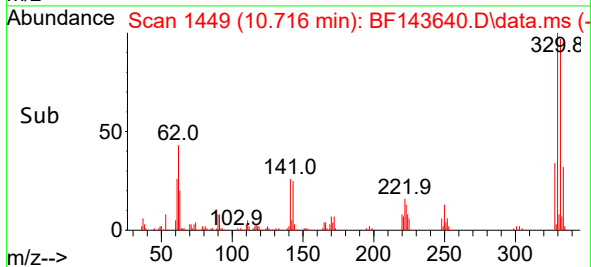
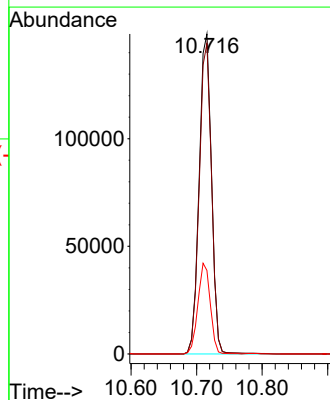
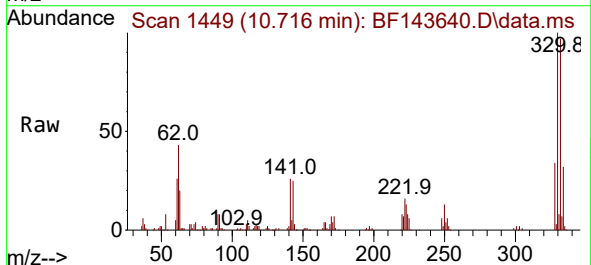
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ClientSampleId :  
LOQ-SOIL-02-QT3-2025

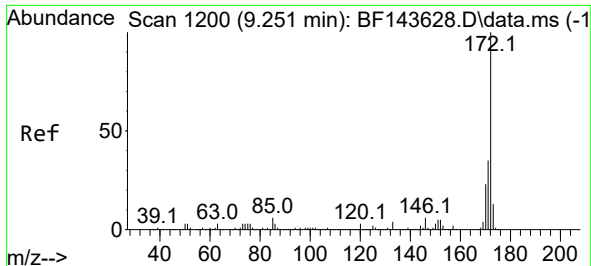
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:237 | Resp: | 26165     |
| Ion Ratio   | Lower | Upper     |
| 237         | 100   |           |
| 235         | 63.6  | 43.0 83.0 |
| 272         | 13.1  | 0.0 32.9  |



#42  
2,4,6-Tribromophenol  
Concen: 143.311 ng  
RT: 10.716 min Scan# 1449  
Delta R.T. -0.000 min  
Lab File: BF143640.D  
Acq: 04 Sep 2025 13:15

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:330 | Resp: | 194788     |
| Ion Ratio   | Lower | Upper      |
| 330         | 100   |            |
| 332         | 97.1  | 77.0 115.6 |
| 141         | 28.4  | 23.5 35.3  |





#45

2-Fluorobiphenyl

Concen: 86.937 ng

RT: 9.245 min Scan# 1199

Delta R.T. -0.006 min

Lab File: BF143640.D

Acq: 04 Sep 2025 13:15

Instrument :

BNA\_F

ClientSampleId :

LOQ-SOIL-02-QT3-2025

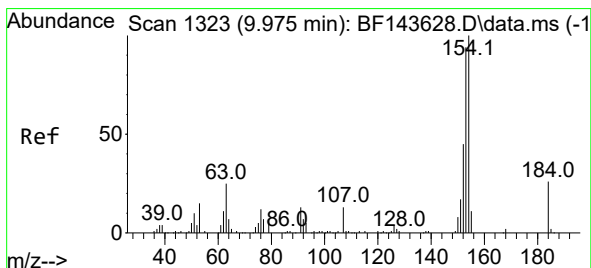
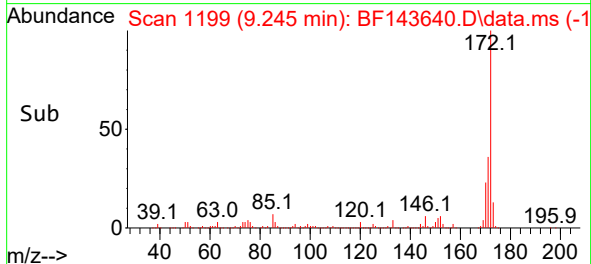
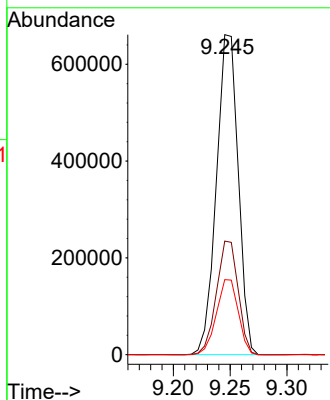
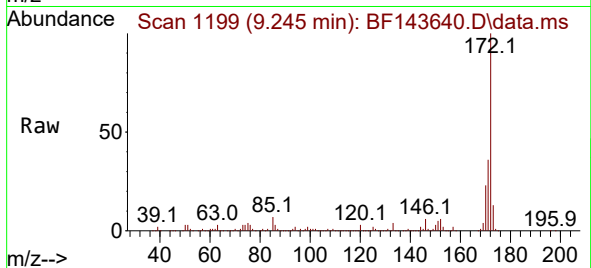
Tgt Ion:172 Resp: 884463

Ion Ratio Lower Upper

172 100

171 35.5 28.1 42.1

170 23.4 18.6 28.0



#54

2,4-Dinitrophenol

Concen: 13.939 ng

RT: 9.969 min Scan# 1322

Delta R.T. -0.006 min

Lab File: BF143640.D

Acq: 04 Sep 2025 13:15

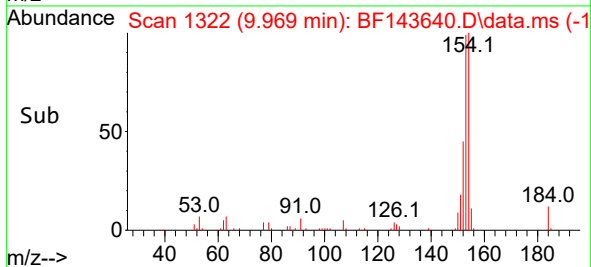
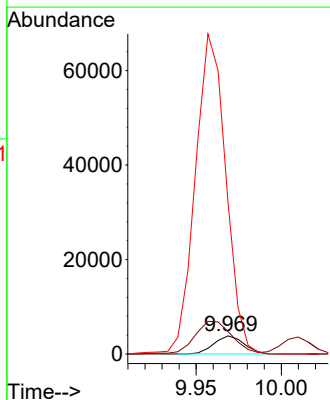
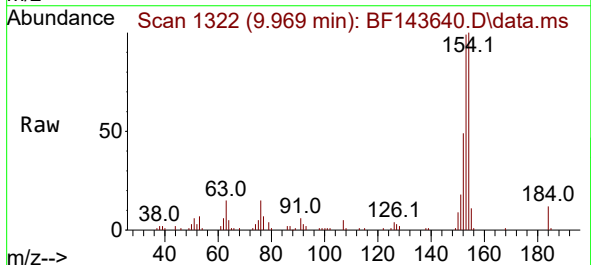
Tgt Ion:184 Resp: 4659

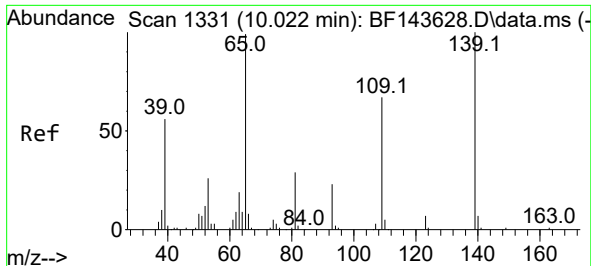
Ion Ratio Lower Upper

184 100

63 123.3 81.8 122.8#

154 828.5 348.3 522.5#

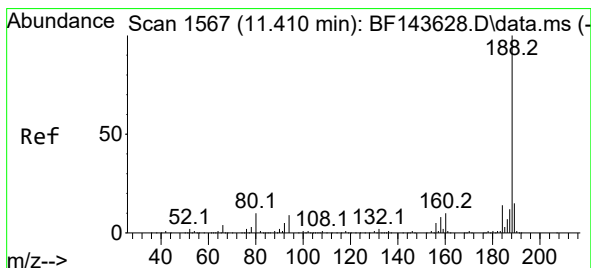
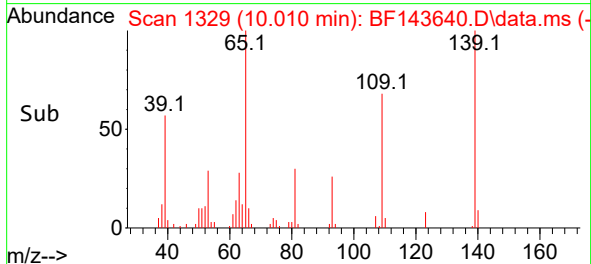
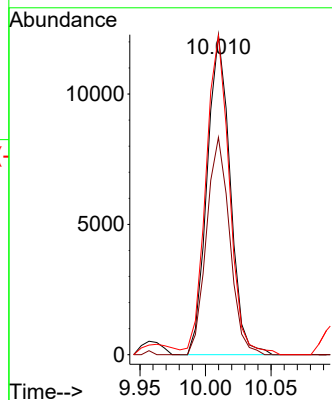
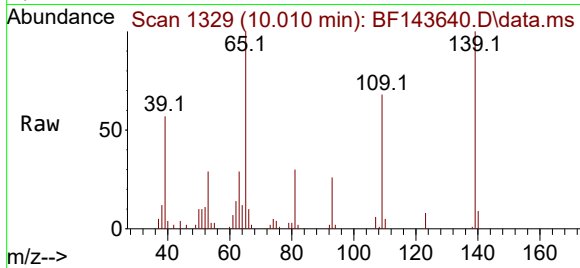




#56  
4-Nitrophenol  
Concen: 9.821 ng  
RT: 10.010 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF143640.D  
Acq: 04 Sep 2025 13:15

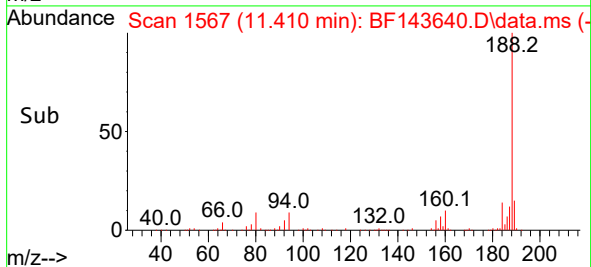
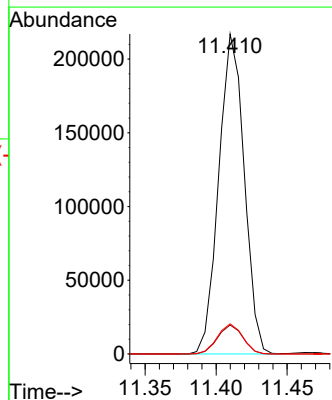
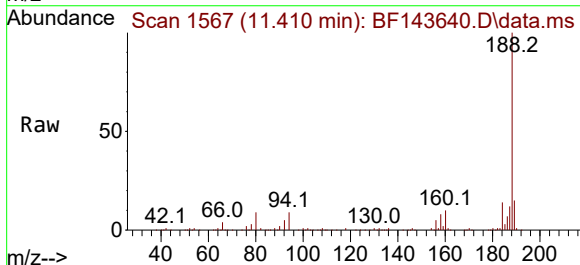
Instrument :  
BNA\_F  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

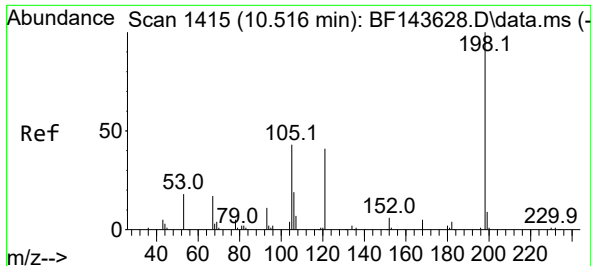
Tgt Ion:139 Resp: 14987  
Ion Ratio Lower Upper  
139 100  
109 67.9 47.6 87.6  
65 99.7 80.5 120.5



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.410 min Scan# 1567  
Delta R.T. -0.000 min  
Lab File: BF143640.D  
Acq: 04 Sep 2025 13:15

Tgt Ion:188 Resp: 270318  
Ion Ratio Lower Upper  
188 100  
94 9.1 7.5 11.3  
80 9.4 8.4 12.6

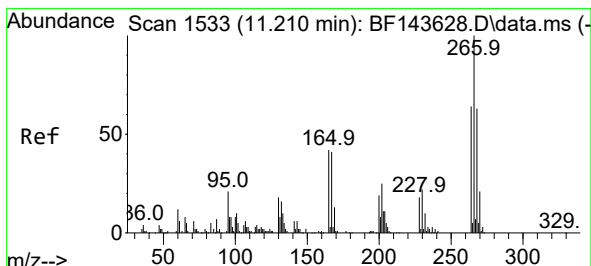
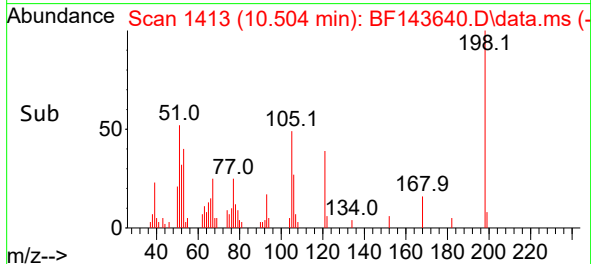
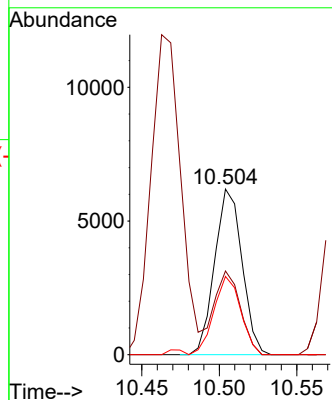
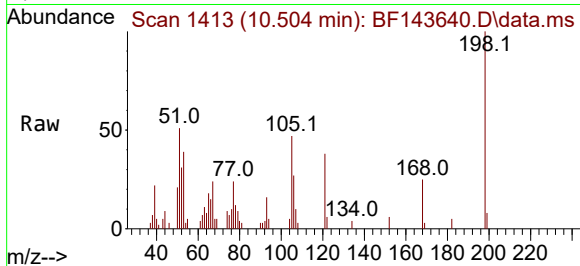




#65  
4,6-Dinitro-2-methylphenol  
Concen: 13.997 ng  
RT: 10.504 min Scan# 1415  
Delta R.T. -0.012 min  
Lab File: BF143640.D  
Acq: 04 Sep 2025 13:15

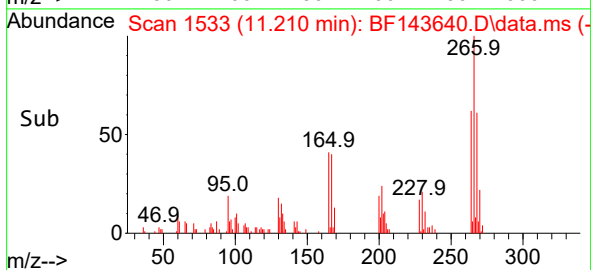
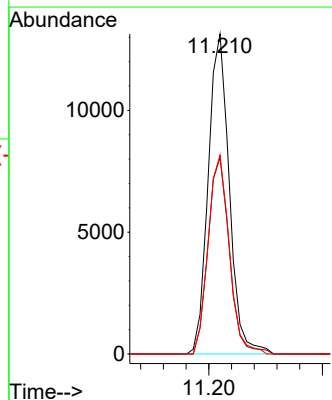
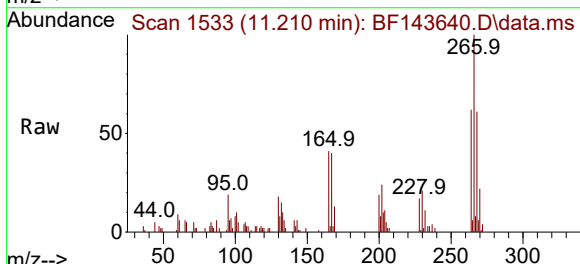
Instrument :  
BNA\_F  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

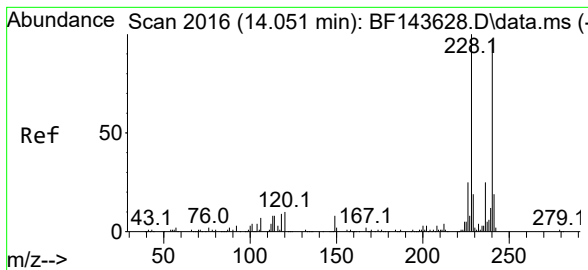
Tgt Ion:198 Resp: 7613  
Ion Ratio Lower Upper  
198 100  
51 50.6 30.7 70.7  
105 47.2 26.0 66.0



#70  
Pentachlorophenol  
Concen: 9.143 ng  
RT: 11.210 min Scan# 1533  
Delta R.T. -0.000 min  
Lab File: BF143640.D  
Acq: 04 Sep 2025 13:15

Tgt Ion:266 Resp: 16913  
Ion Ratio Lower Upper  
266 100  
268 61.4 50.6 76.0  
264 62.1 51.2 76.8

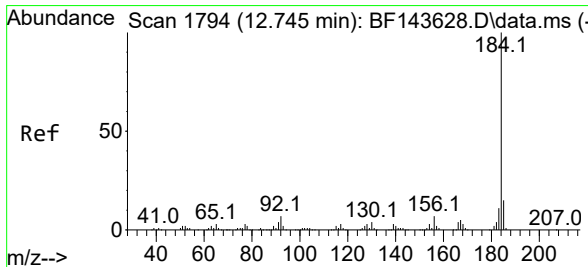
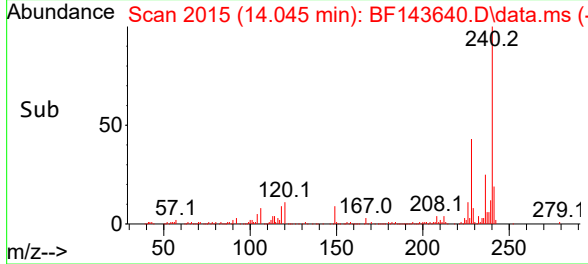
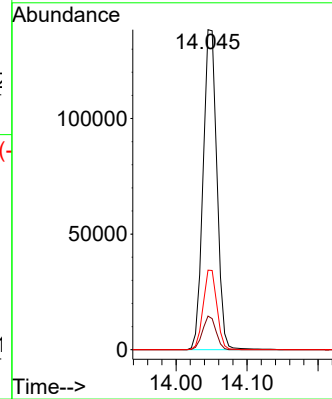
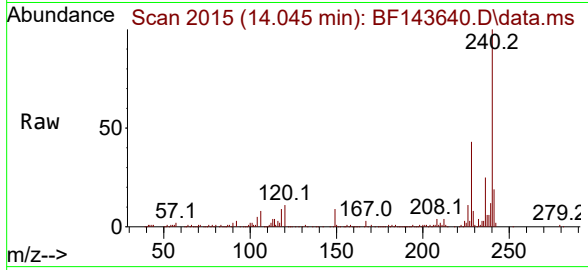




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.045 min Scan# 2016  
Delta R.T. -0.006 min  
Lab File: BF143640.D  
Acq: 04 Sep 2025 13:15

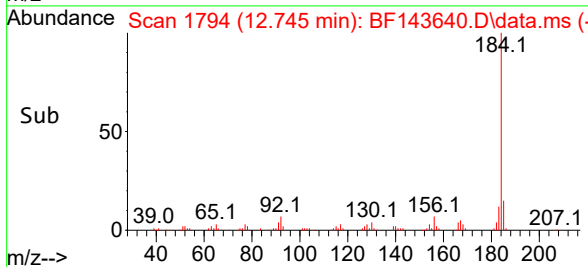
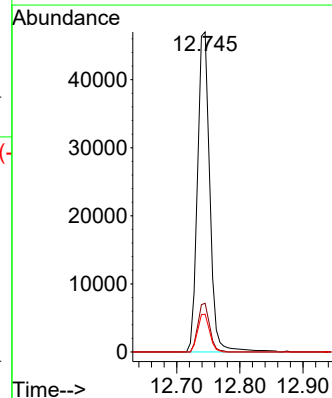
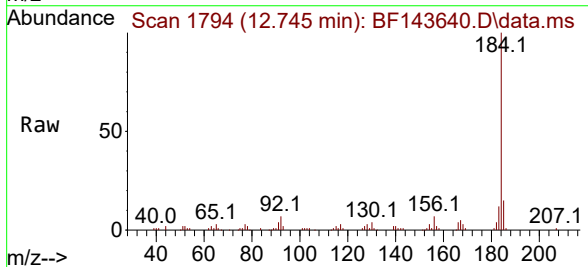
Instrument :  
BNA\_F  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

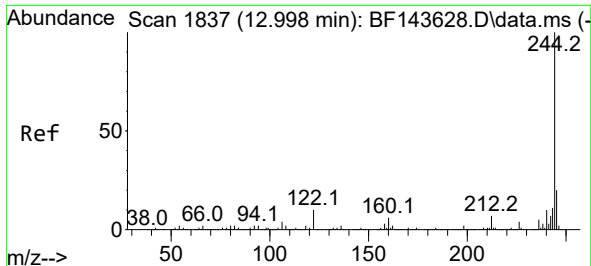
Tgt Ion:240 Resp: 187689  
Ion Ratio Lower Upper  
240 100  
120 10.5 8.0 12.0  
236 24.9 20.5 30.7



#77  
Benzidine  
Concen: 14.807 ng  
RT: 12.745 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: BF143640.D  
Acq: 04 Sep 2025 13:15

Tgt Ion:184 Resp: 63582  
Ion Ratio Lower Upper  
184 100  
185 15.2 11.8 17.6  
183 11.8 9.0 13.6

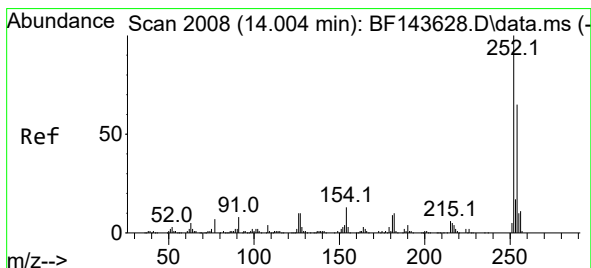
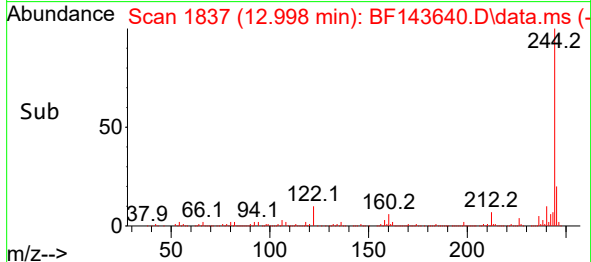
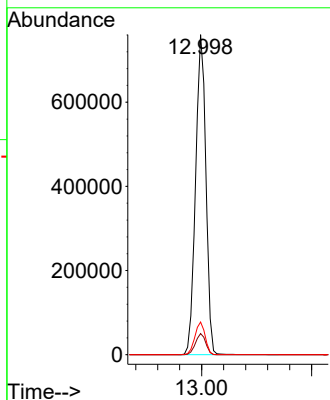
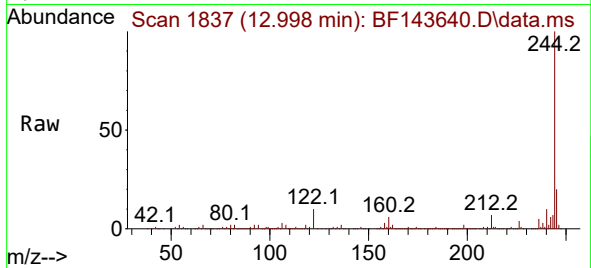




#79  
 Terphenyl-d14  
 Concen: 88.040 ng  
 RT: 12.998 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: BF143640.D  
 Acq: 04 Sep 2025 13:15

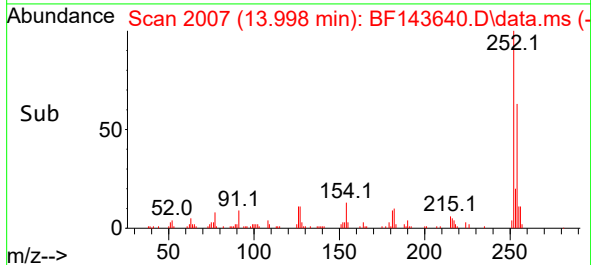
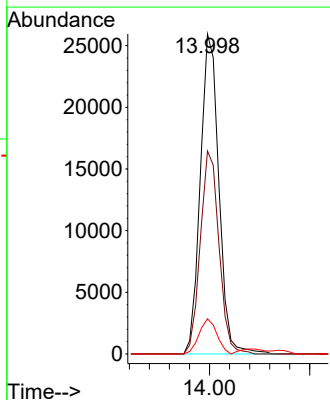
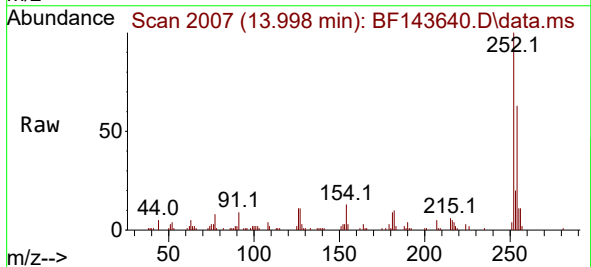
Instrument :  
 BNA\_F  
 ClientSampleId :  
 LOQ-SOIL-02-QT3-2025

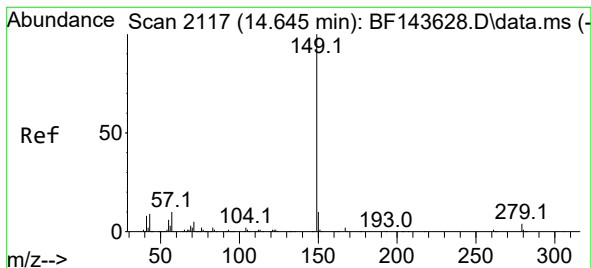
Tgt Ion:244 Resp: 991711  
 Ion Ratio Lower Upper  
 244 100  
 212 6.6 5.3 7.9  
 122 10.2 8.3 12.5



#82  
 3,3'-Dichlorobenzidine  
 Concen: 10.071 ng  
 RT: 13.998 min Scan# 2007  
 Delta R.T. -0.006 min  
 Lab File: BF143640.D  
 Acq: 04 Sep 2025 13:15

Tgt Ion:252 Resp: 33376  
 Ion Ratio Lower Upper  
 252 100  
 254 63.5 52.2 78.2  
 126 11.0 8.1 12.1





#85

Di-n-octyl phthalate

Concen: 7.211 ng

RT: 14.645 min Scan# 2117

Delta R.T. -0.000 min

Lab File: BF143640.D

Acq: 04 Sep 2025 13:15

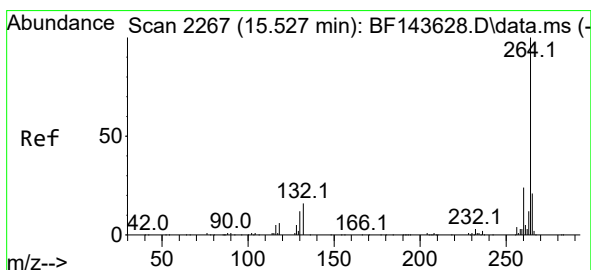
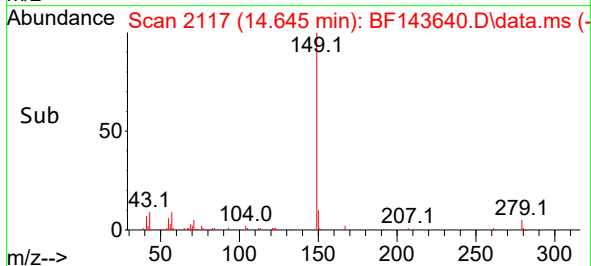
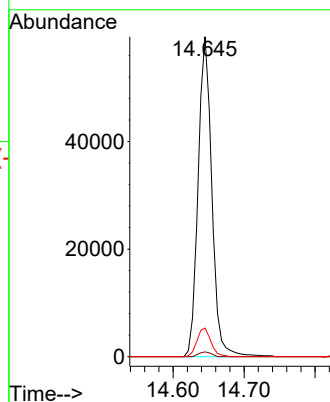
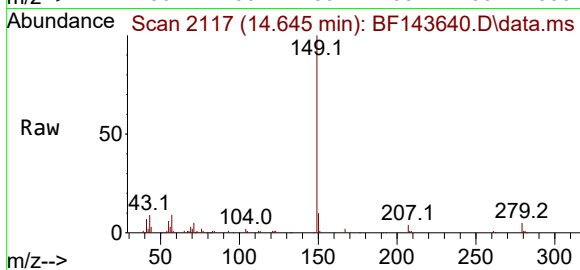
Instrument :

BNA\_F

ClientSampleId :

LOQ-SOIL-02-QT3-2025

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:149 | Resp: | 80304    |
| Ion Ratio   | Lower | Upper    |
| 149         | 100   |          |
| 167         | 1.4   | 1.2 1.8  |
| 43          | 9.1   | 7.8 11.8 |



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.521 min Scan# 2266

Delta R.T. -0.006 min

Lab File: BF143640.D

Acq: 04 Sep 2025 13:15

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:264 | Resp: | 160476    |
| Ion Ratio   | Lower | Upper     |
| 264         | 100   |           |
| 260         | 24.0  | 18.9 28.3 |
| 265         | 20.8  | 17.1 25.7 |

