

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091525\  
 Data File : VN087841.D  
 Acq On : 15 Sep 2025 16:25  
 Operator : JC\MD  
 Sample : Q3074-01  
 Misc : 1.08g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MOO-25-0141

Quant Time: Sep 16 01:42:45 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N082125W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 22 02:55:42 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.200  | 168  | 225393   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.082  | 114  | 514362   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.841 | 117  | 471982   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152  | 234658   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.559  | 65    | 236328   | 51.175   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | =    | 102.340% |
| 35) Dibromofluoromethane    | 8.147  | 113   | 184715   | 49.739   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 99.480%  |
| 50) Toluene-d8              | 10.547 | 98    | 660064   | 47.488   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | =    | 94.980%  |
| 62) 4-Bromofluorobenzene    | 12.829 | 95    | 218956   | 44.295   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 77 - 121 | Recovery | =    | 88.580%  |

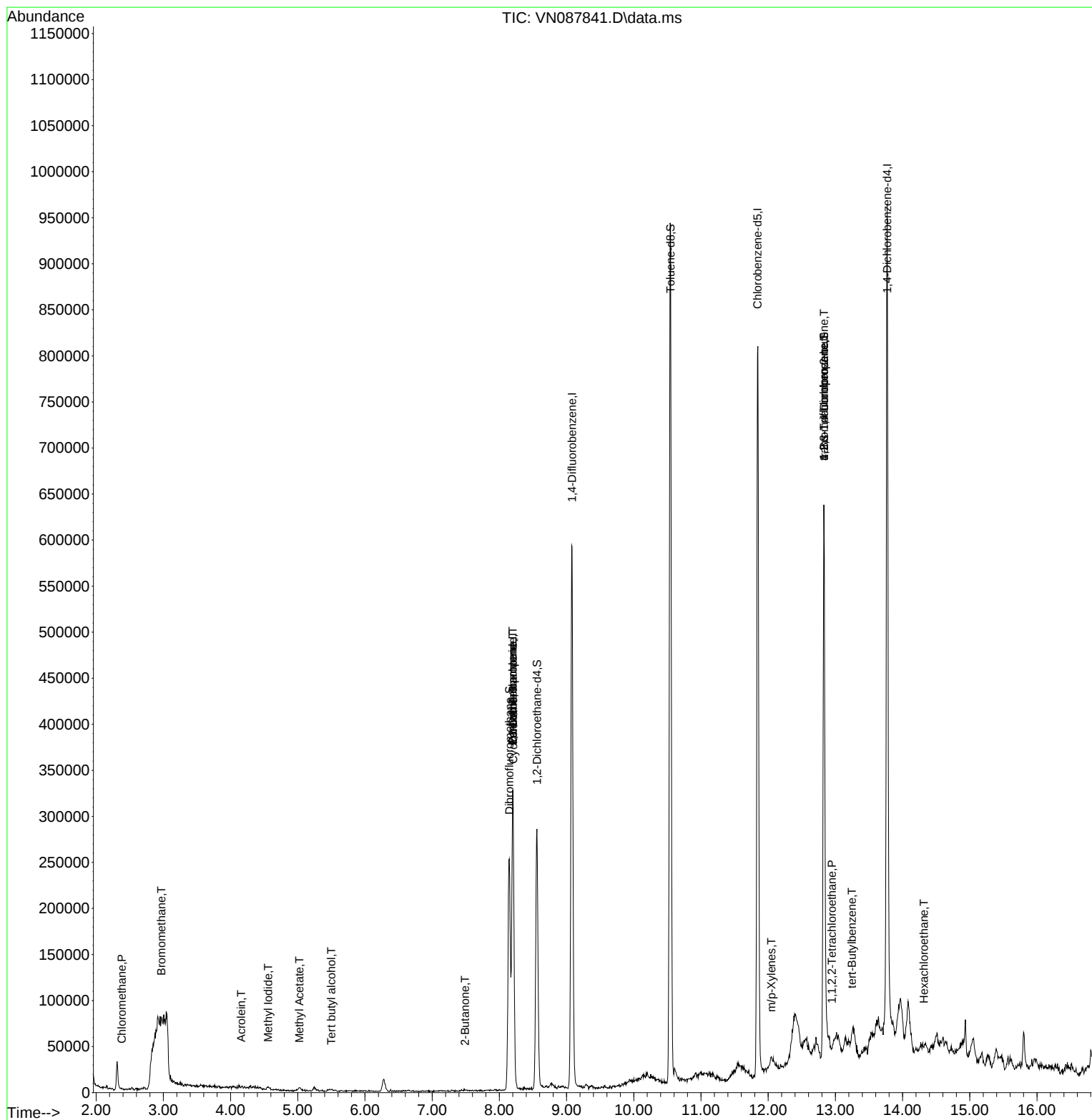
| Target Compounds              |        |     |        |           | Qvalue |    |
|-------------------------------|--------|-----|--------|-----------|--------|----|
| 3) Chloromethane              | 2.383  | 50  | 680    | 0.207     | ug/l # | 42 |
| 5) Bromomethane               | 2.971  | 94  | 478    | 0.243     | ug/l # | 43 |
| 10) Methyl Iodide             | 4.559  | 142 | 7691   | 9.622     | ug/l # | 89 |
| 11) Tert butyl alcohol        | 5.500  | 59  | 429    | 0.535     | ug/l # | 71 |
| 13) Acrolein                  | 4.159  | 56  | 514    | 0.522     | ug/l # | 58 |
| 18) Methyl Acetate            | 5.024  | 43  | 7733   | 1.469     | ug/l   | 91 |
| 20) Methylene Chloride        | 5.241  | 84  | 1531   | Below Cal | #      | 55 |
| 25) 2-Butanone                | 7.488  | 43  | 969    | 0.293     | ug/l # | 50 |
| 31) Cyclohexane               | 8.206  | 56  | 6744   | 1.161     | ug/l # | 6  |
| 36) 1,1-Dichloropropene       | 8.200  | 75  | 20318  | 3.566     | ug/l # | 51 |
| 38) Carbon Tetrachloride      | 8.200  | 117 | 26049  | 4.631     | ug/l # | 15 |
| 68) m/p-Xylenes               | 12.047 | 106 | 3580   | 0.480     | ug/l # | 30 |
| 75) 1,1,2,2-Tetrachloroethane | 12.947 | 83  | 2236   | 0.343     | ug/l # | 40 |
| 76) 1,2,3-Trichloropropane    | 12.829 | 75  | 120865 | 21.964    | ug/l # | 1  |
| 81) trans-1,4-Dichloro-2-b... | 12.829 | 75  | 120865 | 58.147    | ug/l # | 1  |
| 83) tert-Butylbenzene         | 13.247 | 119 | 3368   | 0.251     | ug/l   | 97 |
| 90) Hexachloroethane          | 14.317 | 117 | 1572   | 0.502     | ug/l # | 22 |

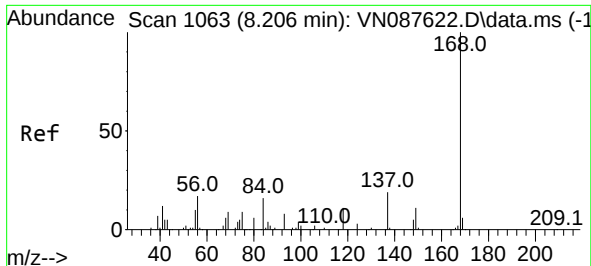
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091525\  
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Instrument :  
MSVOA\_N  
ClientSampleId :  
MOO-25-0141

Quant Time: Sep 16 01:42:45 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N082125W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 22 02:55:42 2025  
Response via : Initial Calibration

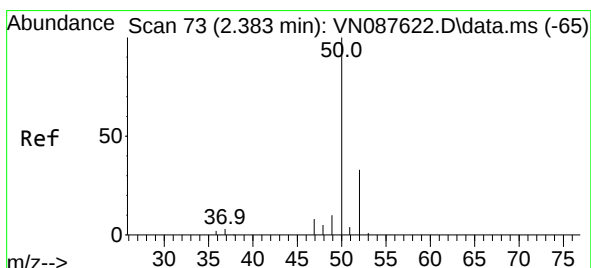
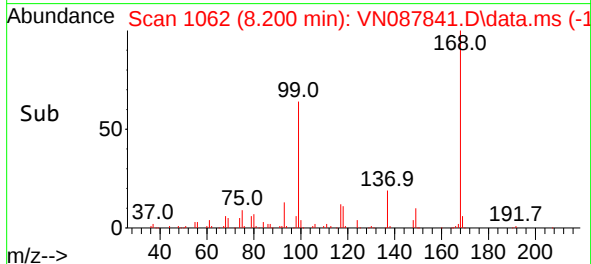
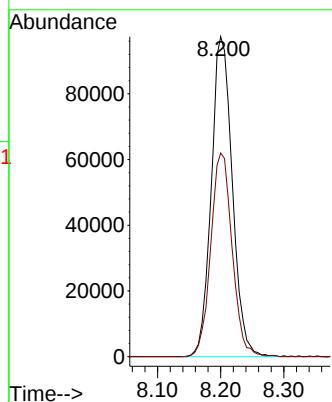
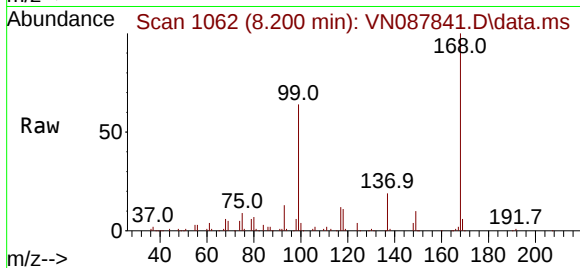




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.200 min Scan# 1063  
Delta R.T. -0.006 min  
Lab File: VN087841.D  
Acq: 15 Sep 2025 16:25

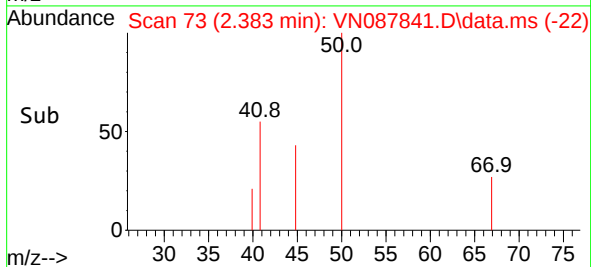
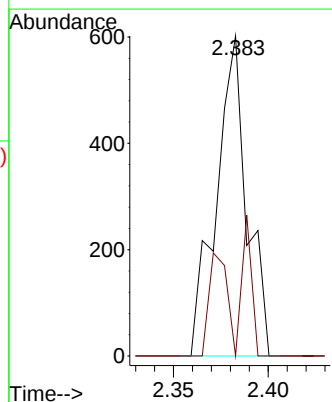
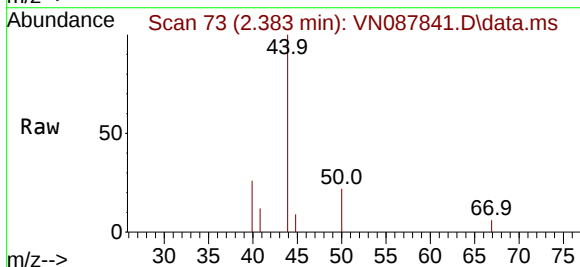
Instrument :  
MSVOA\_N  
ClientSampleId :  
MOO-25-0141

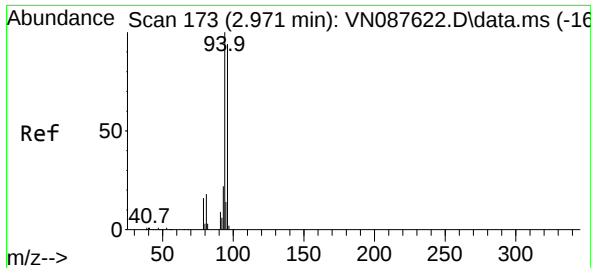
Tgt Ion:168 Resp: 225393  
Ion Ratio Lower Upper  
168 100  
99 63.6 57.2 85.8



#3  
Chloromethane  
Concen: 0.207 ug/l  
RT: 2.383 min Scan# 73  
Delta R.T. -0.000 min  
Lab File: VN087841.D  
Acq: 15 Sep 2025 16:25

Tgt Ion: 50 Resp: 680  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.2 39.4#

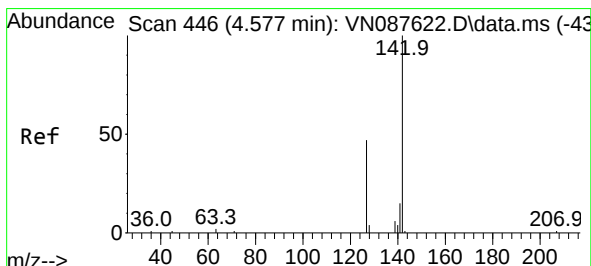
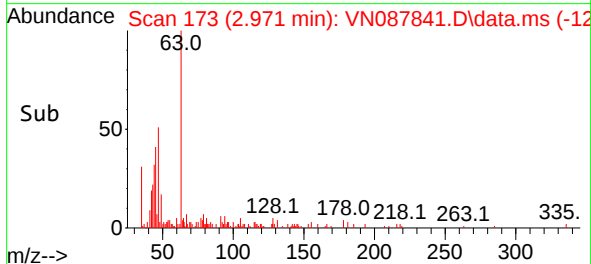
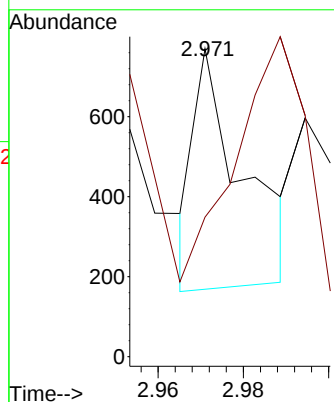
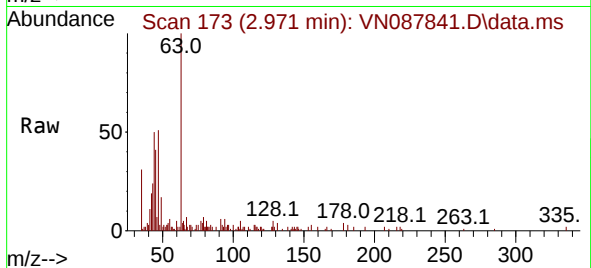




#5  
Bromomethane  
Concen: 0.243 ug/l  
RT: 2.971 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN087841.D  
Acq: 15 Sep 2025 16:25

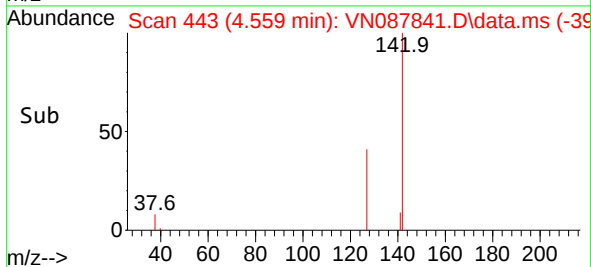
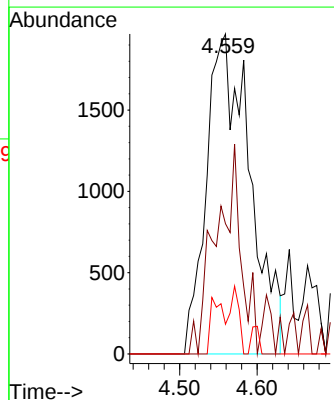
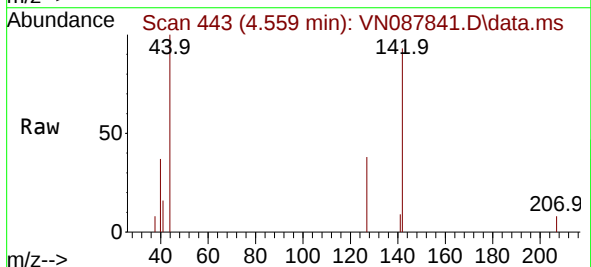
Instrument :  
MSVOA\_N  
ClientSampleId :  
MOO-25-0141

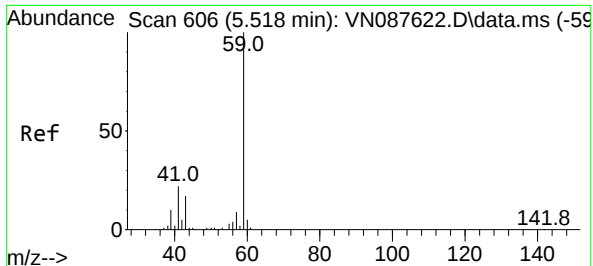
Tgt Ion: 94 Resp: 478  
Ion Ratio Lower Upper  
94 100  
96 39.3 75.4 113.2#



#10  
Methyl Iodide  
Concen: 9.622 ug/l  
RT: 4.559 min Scan# 443  
Delta R.T. -0.018 min  
Lab File: VN087841.D  
Acq: 15 Sep 2025 16:25

Tgt Ion: 142 Resp: 7691  
Ion Ratio Lower Upper  
142 100  
127 40.7 38.0 57.0  
141 9.3 12.0 18.0#

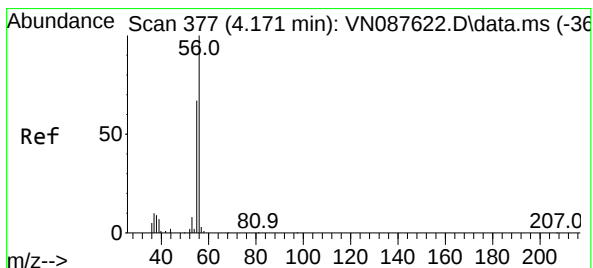
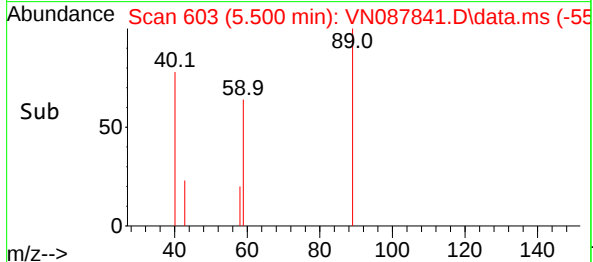
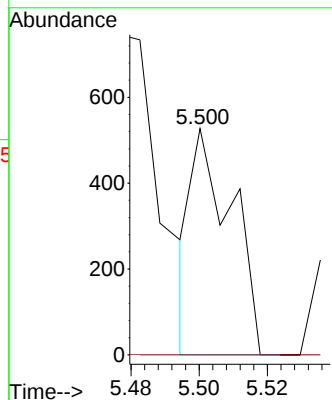
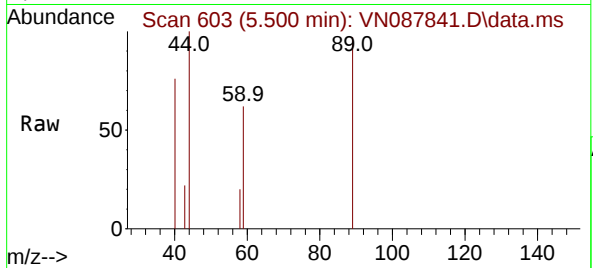




#11  
Tert butyl alcohol  
Concen: 0.535 ug/l  
RT: 5.500 min Scan# 606  
Delta R.T. -0.018 min  
Lab File: VN087841.D  
Acq: 15 Sep 2025 16:25

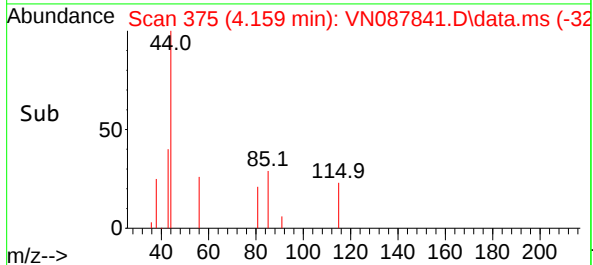
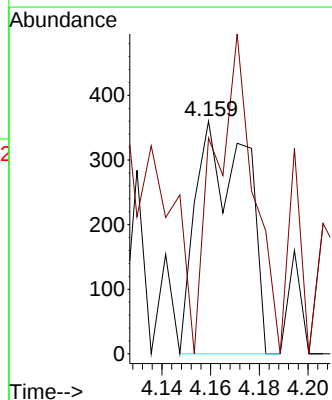
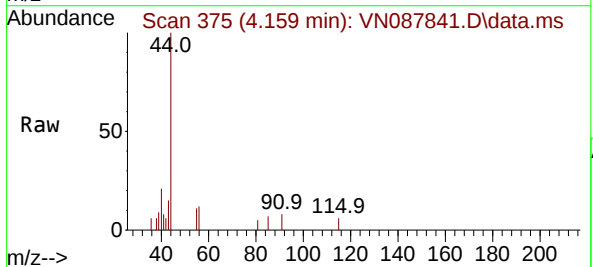
Instrument :  
MSVOA\_N  
ClientSampleId :  
MOO-25-0141

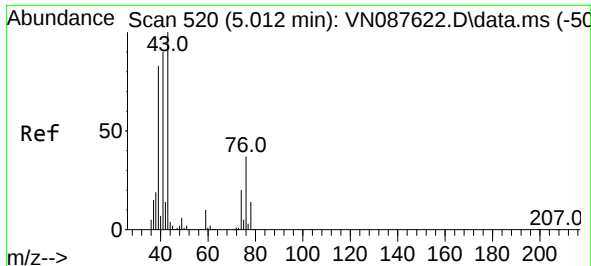
Tgt Ion: 59 Resp: 429  
Ion Ratio Lower Upper  
59 100  
57 0.0 9.0 13.4#



#13  
Acrolein  
Concen: 0.522 ug/l  
RT: 4.159 min Scan# 375  
Delta R.T. -0.012 min  
Lab File: VN087841.D  
Acq: 15 Sep 2025 16:25

Tgt Ion: 56 Resp: 514  
Ion Ratio Lower Upper  
56 100  
55 106.2 57.3 85.9#





#18

Methyl Acetate

Concen: 1.469 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.012 min

Lab File: VN087841.D

Acq: 15 Sep 2025 16:25

Instrument :

MSVOA\_N

ClientSampleId :

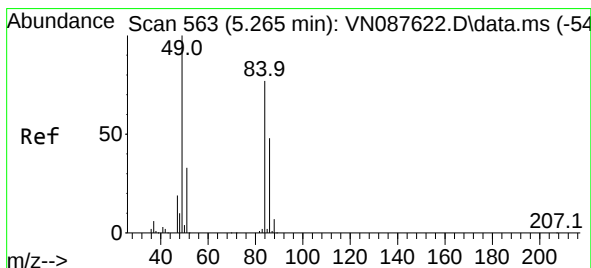
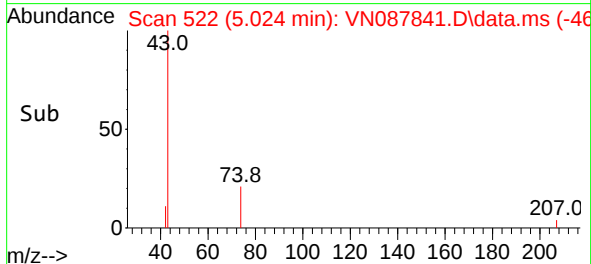
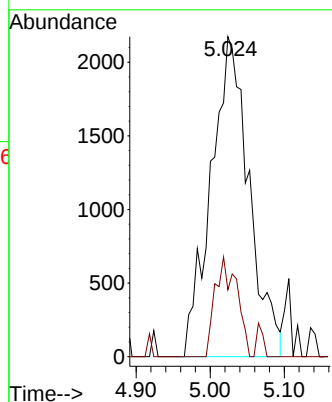
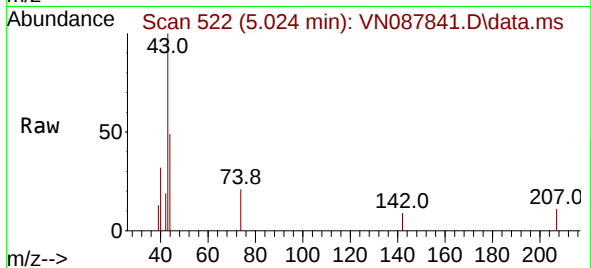
MOO-25-0141

Tgt Ion: 43 Resp: 7733

Ion Ratio Lower Upper

43 100

74 17.8 17.6 26.4



#20

Methylene Chloride

Concen: Below Cal

RT: 5.241 min Scan# 559

Delta R.T. -0.024 min

Lab File: VN087841.D

Acq: 15 Sep 2025 16:25

Tgt Ion: 84 Resp: 1531

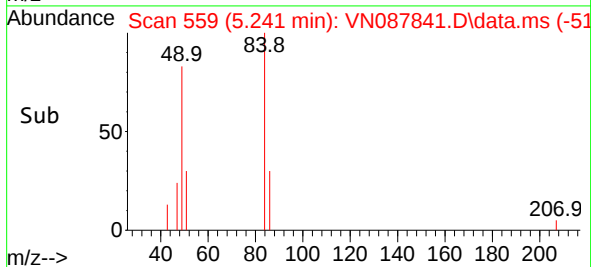
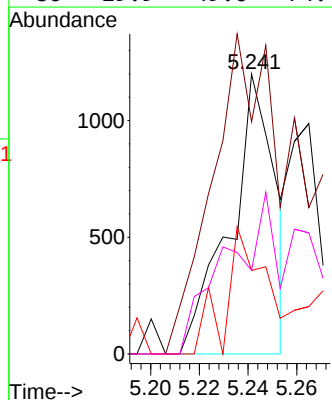
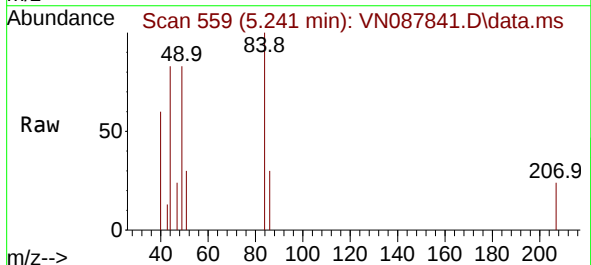
Ion Ratio Lower Upper

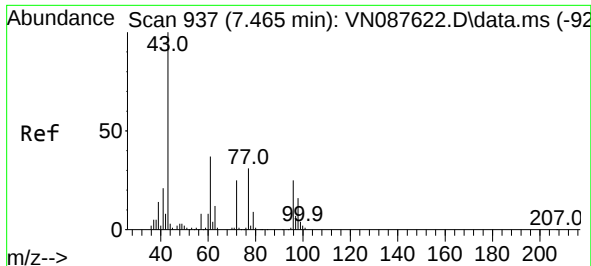
84 100

49 65.9 103.4 155.2#

51 29.9 33.8 50.8#

86 29.9 49.6 74.4#

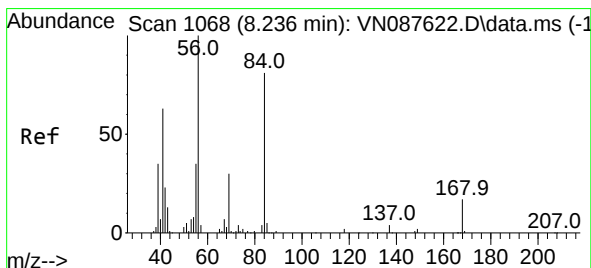
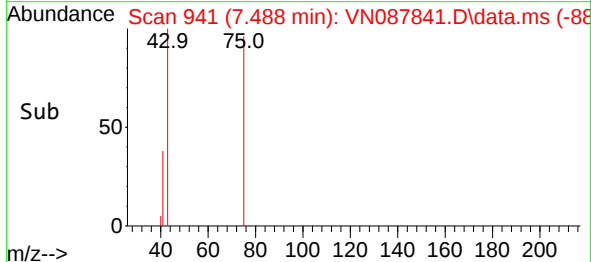
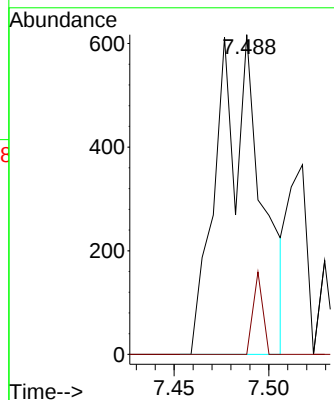
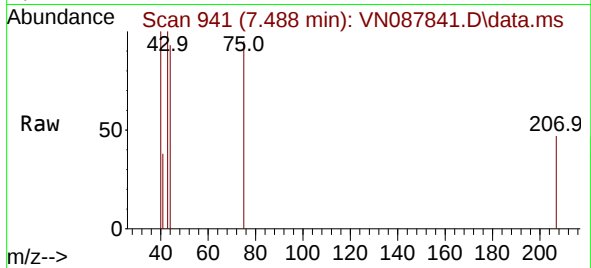




#25  
2-Butanone  
Concen: 0.293 ug/l  
RT: 7.488 min Scan# 941  
Delta R.T. 0.023 min  
Lab File: VN087841.D  
Acq: 15 Sep 2025 16:25

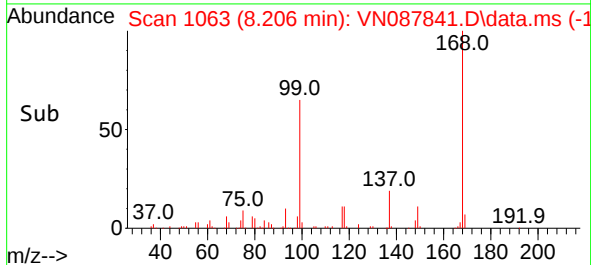
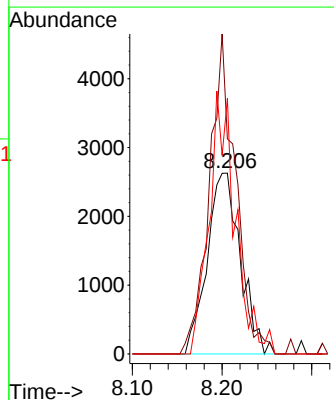
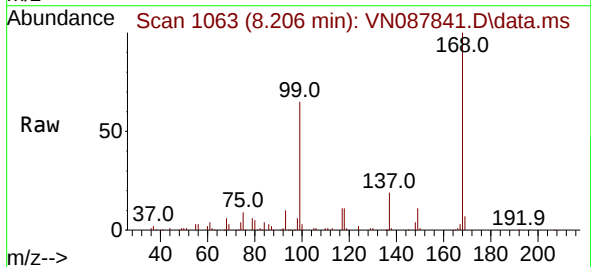
Instrument :  
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ClientSampleId :  
MOO-25-0141

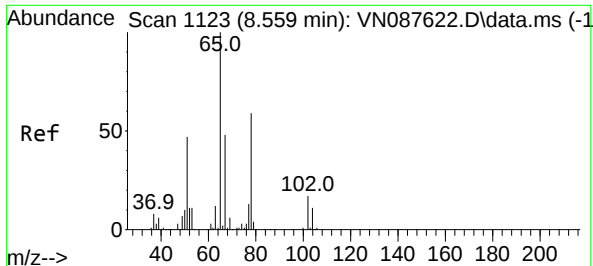
Tgt Ion: 43 Resp: 969  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.9 29.9#



#31  
Cyclohexane  
Concen: 1.161 ug/l  
RT: 8.206 min Scan# 1063  
Delta R.T. -0.030 min  
Lab File: VN087841.D  
Acq: 15 Sep 2025 16:25

Tgt Ion: 56 Resp: 6744  
Ion Ratio Lower Upper  
56 100  
69 119.0 23.7 35.5#  
84 141.4 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 51.175 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087841.D

Acq: 15 Sep 2025 16:25

Instrument :

MSVOA\_N

ClientSampleId :

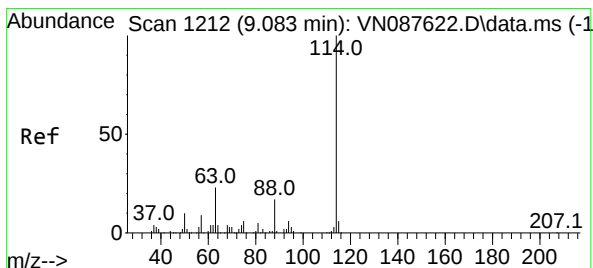
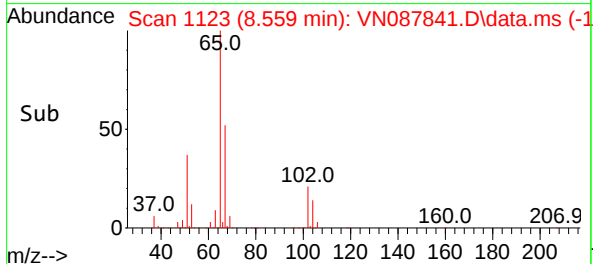
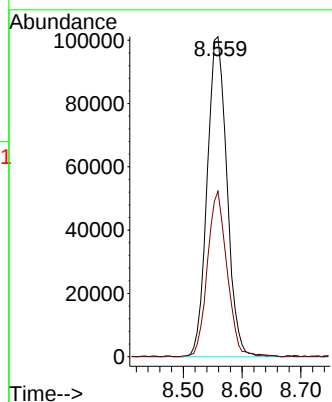
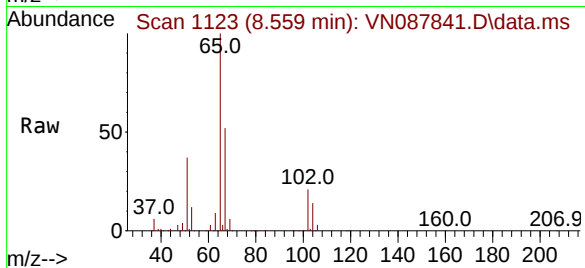
MOO-25-0141

Tgt Ion: 65 Resp: 236328

Ion Ratio Lower Upper

65 100

67 51.0 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087841.D

Acq: 15 Sep 2025 16:25

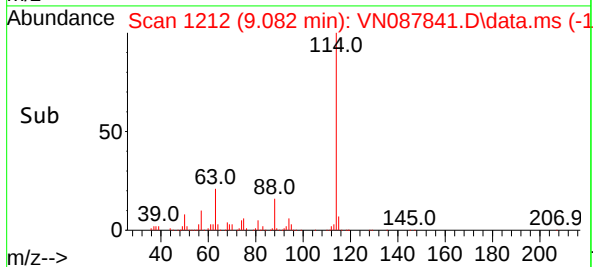
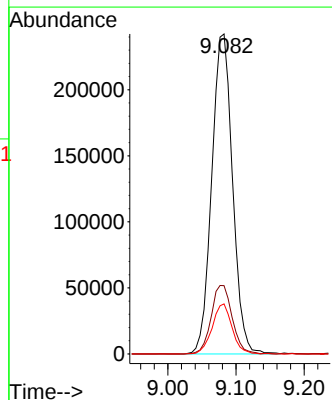
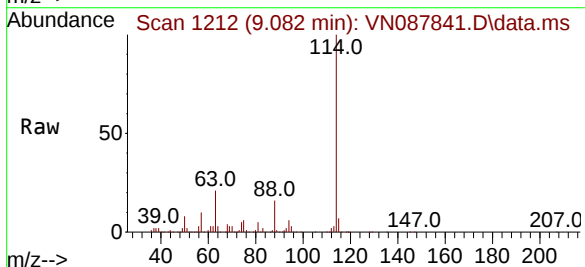
Tgt Ion: 114 Resp: 514362

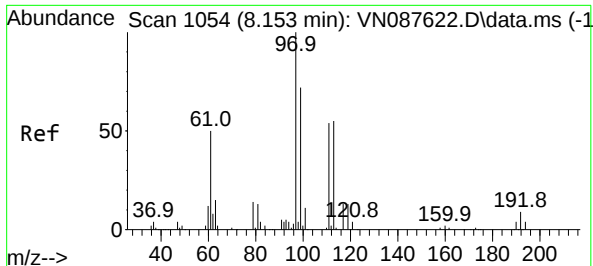
Ion Ratio Lower Upper

114 100

63 21.3 0.0 45.2

88 15.7 0.0 33.4





#35

Dibromofluoromethane

Concen: 49.739 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN087841.D

Acq: 15 Sep 2025 16:25

Instrument :

MSVOA\_N

ClientSampleId :

MOO-25-0141

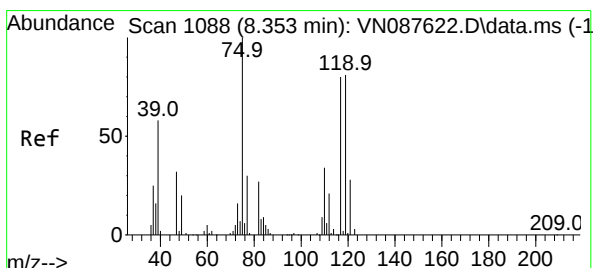
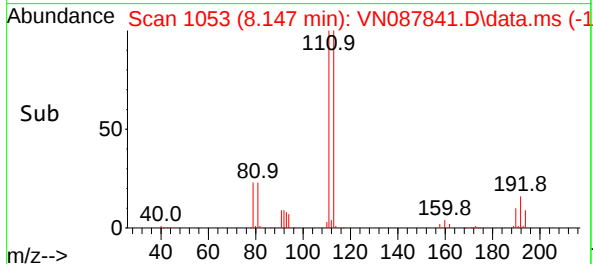
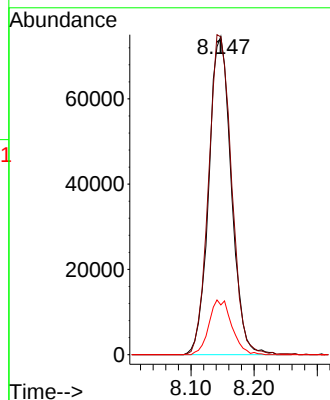
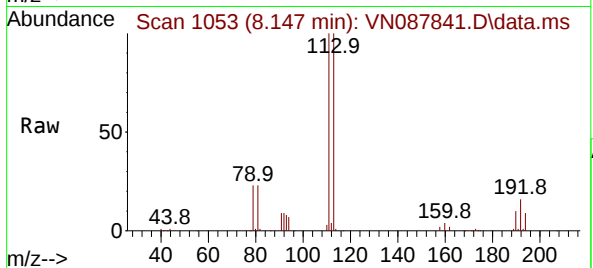
Tgt Ion:113 Resp: 184715

Ion Ratio Lower Upper

113 100

111 102.6 82.8 124.2

192 17.4 12.8 19.2



#36

1,1-Dichloropropene

Concen: 3.566 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN087841.D

Acq: 15 Sep 2025 16:25

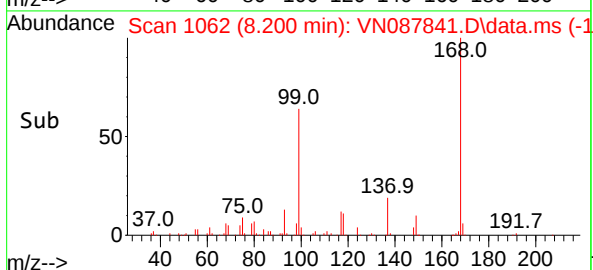
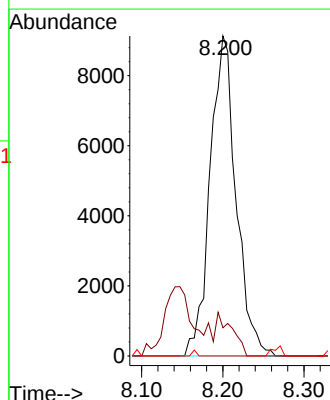
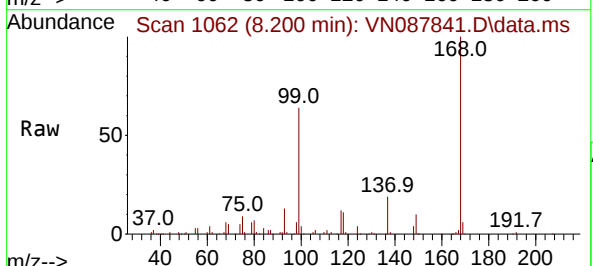
Tgt Ion: 75 Resp: 20318

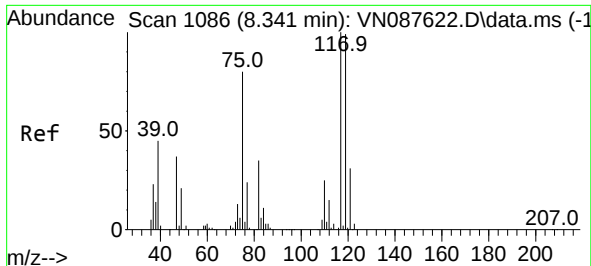
Ion Ratio Lower Upper

75 100

110 8.2 15.9 47.6#

77 0.0 24.4 36.6#

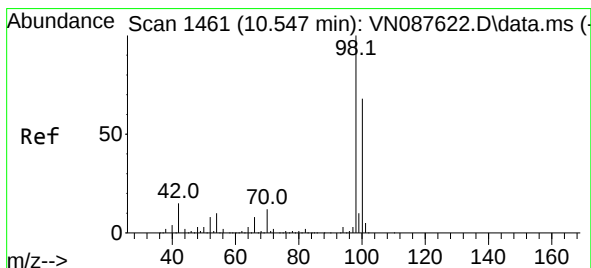
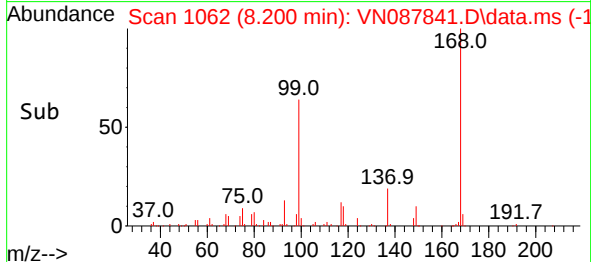
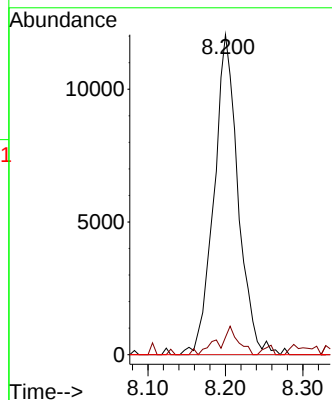
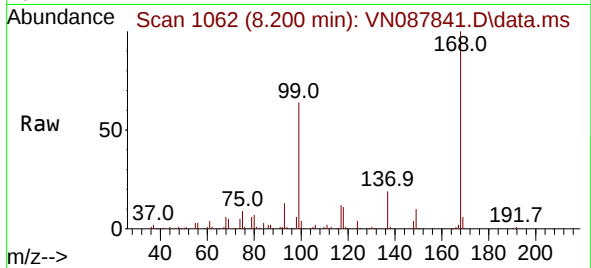




#38  
Carbon Tetrachloride  
Concen: 4.631 ug/l  
RT: 8.200 min Scan# 1062  
Delta R.T. -0.141 min  
Lab File: VN087841.D  
Acq: 15 Sep 2025 16:25

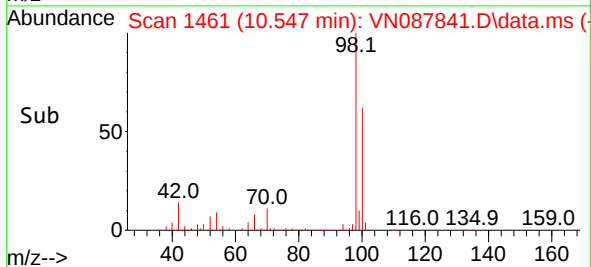
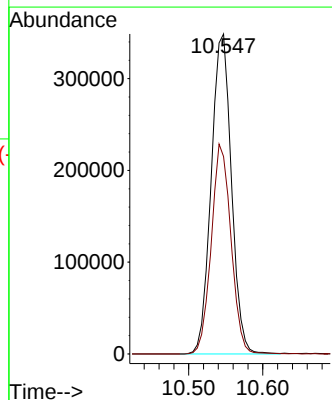
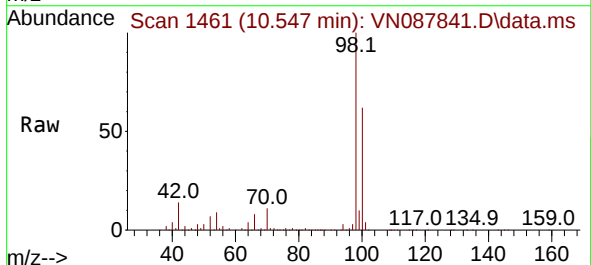
Instrument :  
MSVOA\_N  
ClientSampleId :  
MOO-25-0141

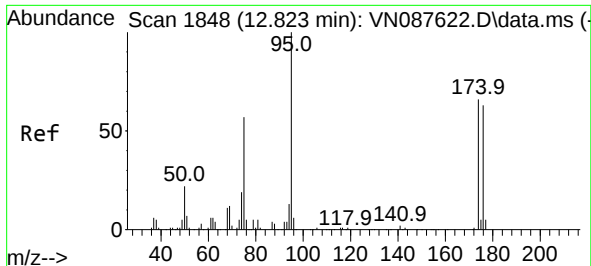
Tgt Ion:117 Resp: 26049  
Ion Ratio Lower Upper  
117 100  
119 5.4 79.0 118.6#  
121 0.0 25.0 37.6#



#50  
Toluene-d8  
Concen: 47.488 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN087841.D  
Acq: 15 Sep 2025 16:25

Tgt Ion: 98 Resp: 660064  
Ion Ratio Lower Upper  
98 100  
100 64.0 52.8 79.2

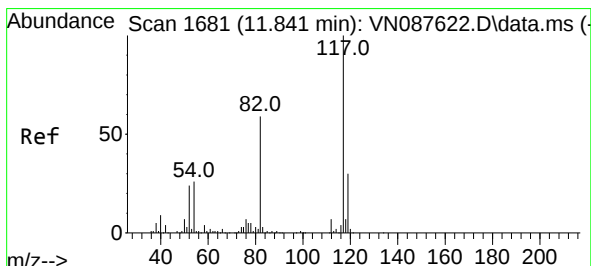
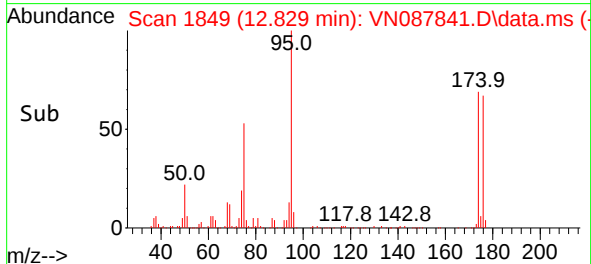
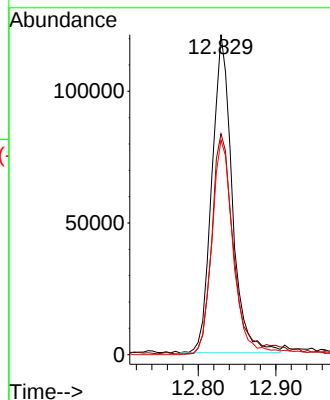
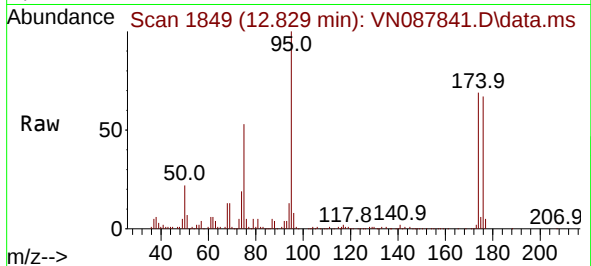




#62  
4-Bromofluorobenzene  
Concen: 44.295 ug/l  
RT: 12.829 min Scan# 1848  
Delta R.T. 0.006 min  
Lab File: VN087841.D  
Acq: 15 Sep 2025 16:25

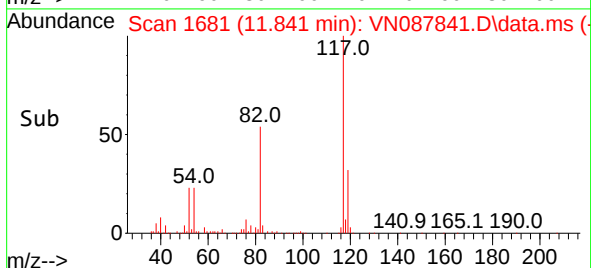
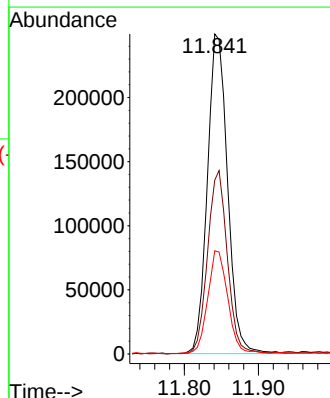
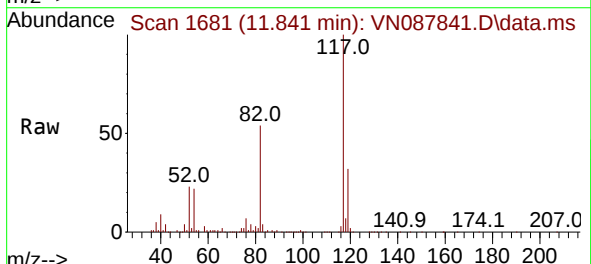
Instrument :  
MSVOA\_N  
ClientSampleId :  
MOO-25-0141

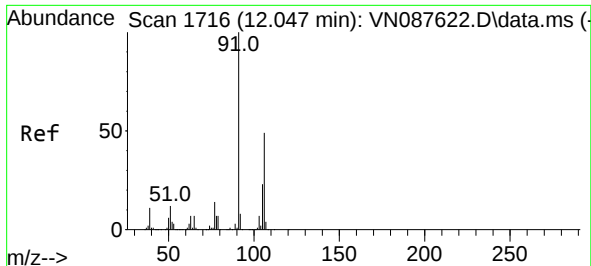
Tgt Ion: 95 Resp: 218956  
Ion Ratio Lower Upper  
95 100  
174 76.8 0.0 138.4  
176 72.5 0.0 132.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.841 min Scan# 1681  
Delta R.T. -0.000 min  
Lab File: VN087841.D  
Acq: 15 Sep 2025 16:25

Tgt Ion: 117 Resp: 471982  
Ion Ratio Lower Upper  
117 100  
82 54.2 47.4 71.2  
119 32.1 24.3 36.5

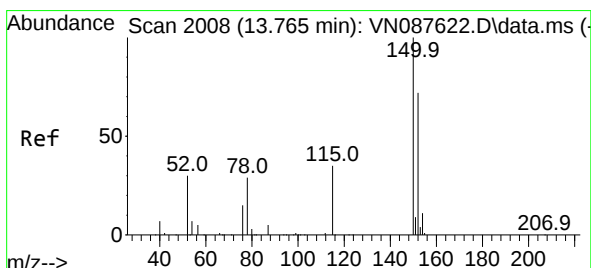
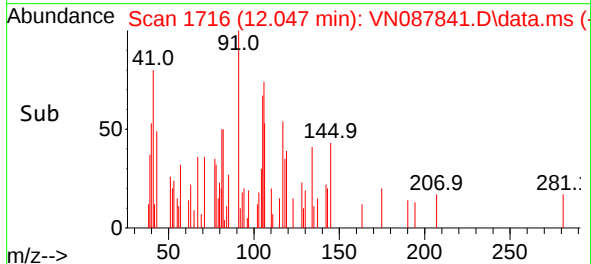
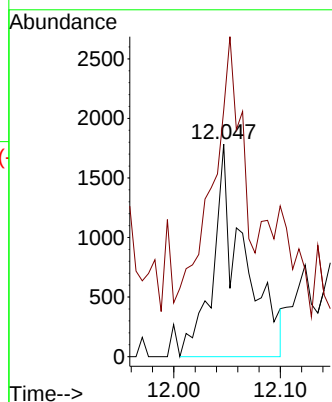
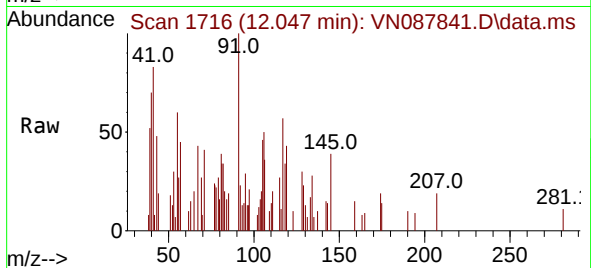




#68  
m/p-Xylenes  
Concen: 0.480 ug/l  
RT: 12.047 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN087841.D  
Acq: 15 Sep 2025 16:25

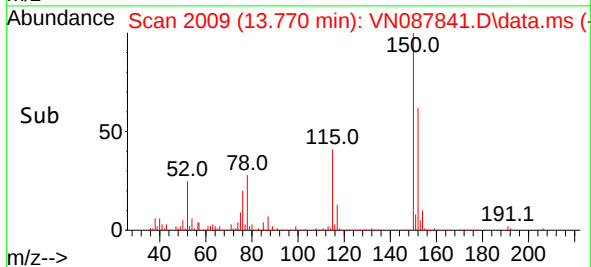
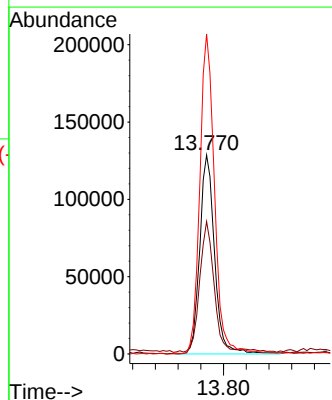
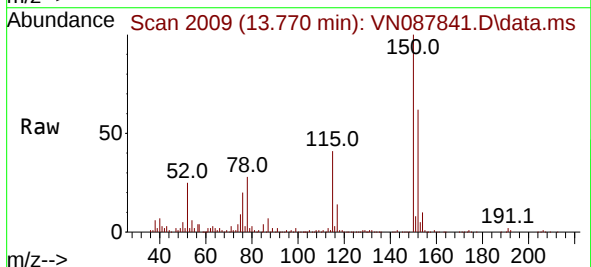
Instrument :  
MSVOA\_N  
ClientSampleId :  
MOO-25-0141

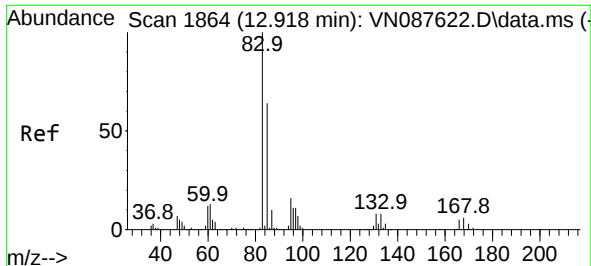
Tgt Ion:106 Resp: 3580  
Ion Ratio Lower Upper  
106 100  
91 101.7 169.3 253.9#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.770 min Scan# 2009  
Delta R.T. 0.006 min  
Lab File: VN087841.D  
Acq: 15 Sep 2025 16:25

Tgt Ion:152 Resp: 234658  
Ion Ratio Lower Upper  
152 100  
115 61.8 32.3 96.8  
150 158.1 0.0 351.0

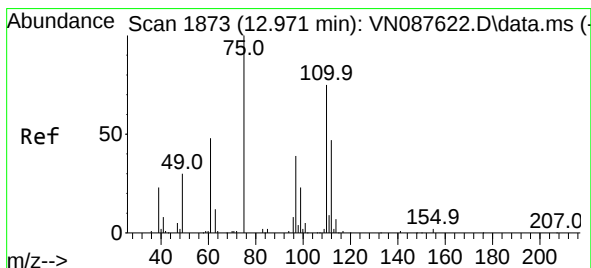
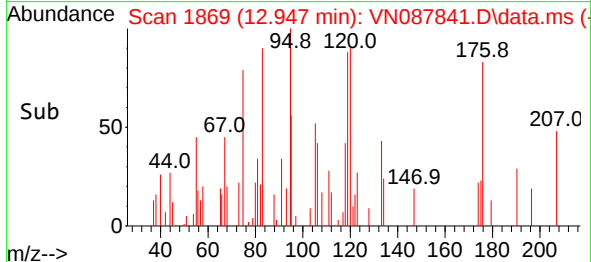
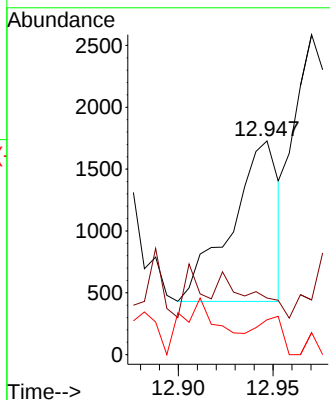
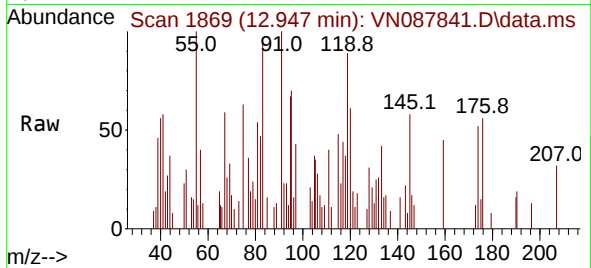




#75  
 1,1,2,2-Tetrachloroethane  
 Concen: 0.343 ug/l  
 RT: 12.947 min Scan# 1869  
 Delta R.T. 0.029 min  
 Lab File: VN087841.D  
 Acq: 15 Sep 2025 16:25

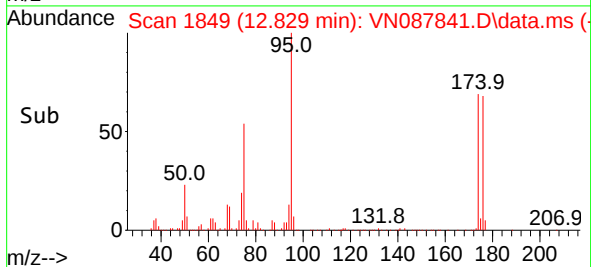
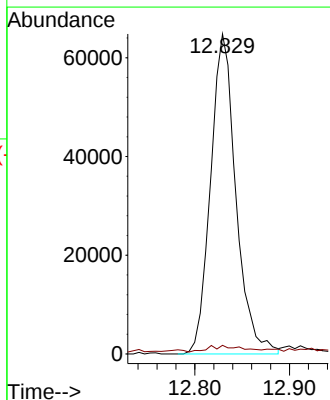
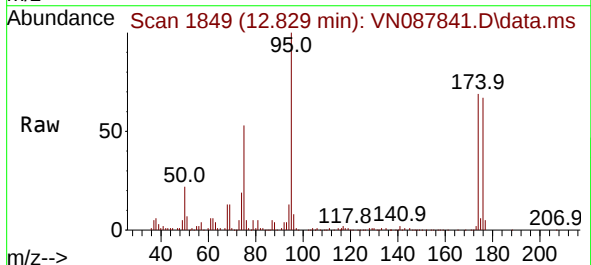
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MOO-25-0141

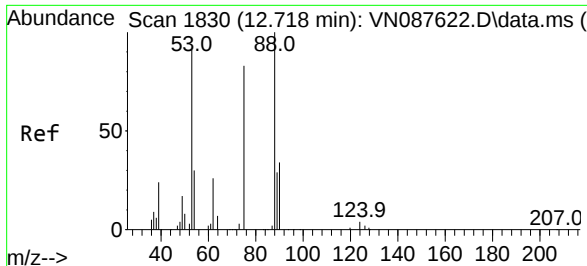
Tgt Ion: 83 Resp: 2236  
 Ion Ratio Lower Upper  
 83 100  
 131 0.0 4.8 14.4#  
 85 12.8 32.1 96.3#



#76  
 1,2,3-Trichloropropane  
 Concen: 21.964 ug/l  
 RT: 12.829 min Scan# 1849  
 Delta R.T. -0.141 min  
 Lab File: VN087841.D  
 Acq: 15 Sep 2025 16:25

Tgt Ion: 75 Resp: 120865  
 Ion Ratio Lower Upper  
 75 100  
 77 2.6 89.1 267.4#

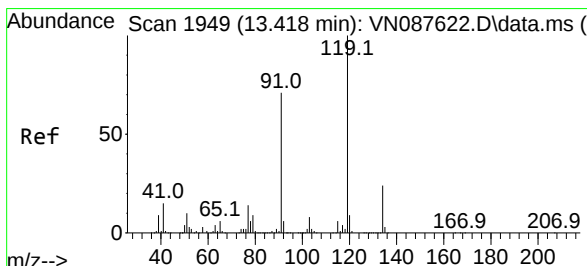
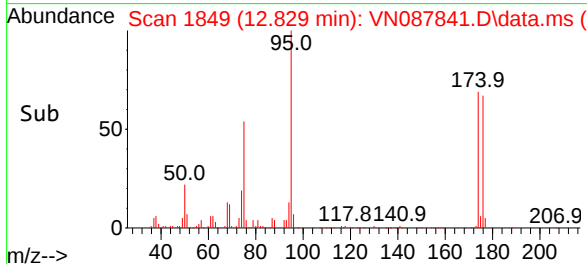
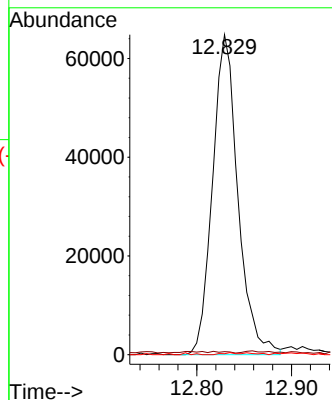
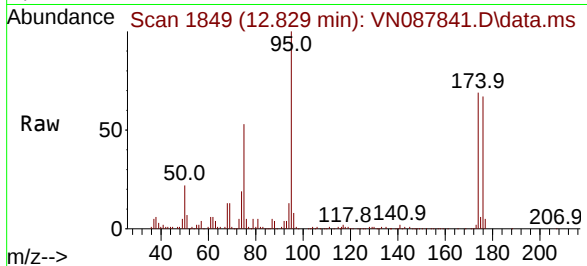




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 58.147 ug/l  
 RT: 12.829 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN087841.D  
 Acq: 15 Sep 2025 16:25

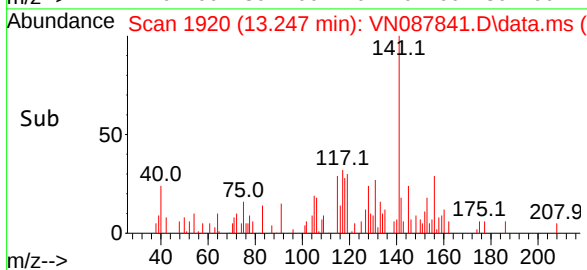
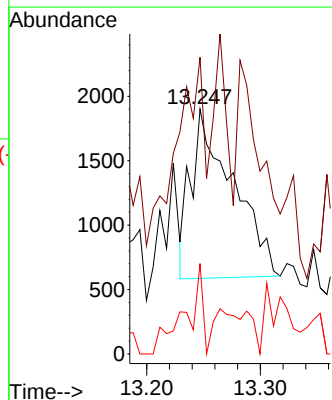
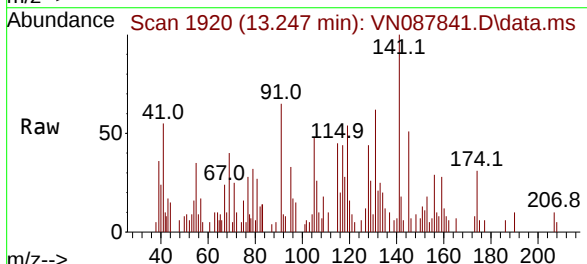
Instrument :  
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 ClientSampleId :  
 MOO-25-0141

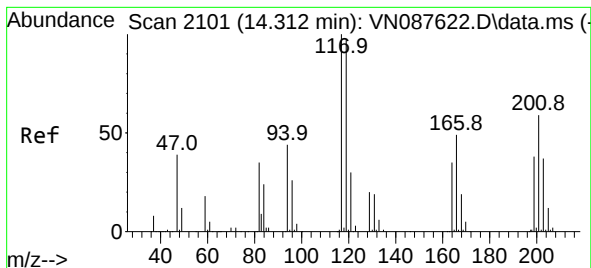
Tgt Ion: 75 Resp: 120865  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 101.8 152.6#  
 89 0.3 35.6 53.4#



#83  
 tert-Butylbenzene  
 Concen: 0.251 ug/l  
 RT: 13.247 min Scan# 1920  
 Delta R.T. -0.171 min  
 Lab File: VN087841.D  
 Acq: 15 Sep 2025 16:25

Tgt Ion: 119 Resp: 3368  
 Ion Ratio Lower Upper  
 119 100  
 91 71.5 35.0 105.0  
 134 21.8 12.6 37.8





#90

Hexachloroethane

Concen: 0.502 ug/l

RT: 14.317 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN087841.D

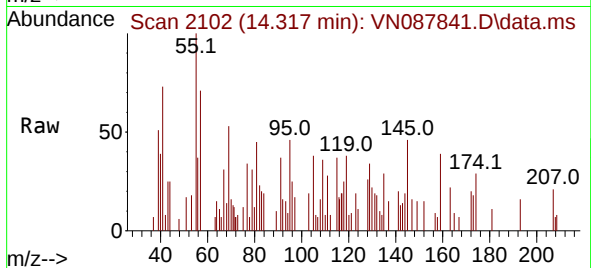
Acq: 15 Sep 2025 16:25

Instrument :

MSVOA\_N

ClientSampleId :

MOO-25-0141



Tgt Ion:117 Resp: 1572

Ion Ratio Lower Upper

117 100

201 0.0 29.1 87.4#

