

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081325\  
 Data File : VN087541.D  
 Acq On : 13 Aug 2025 17:27  
 Operator : JC\MD  
 Sample : Q2832-06  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Aug 14 04:04:25 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071625W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 17 02:56:13 2025  
 Response via : Initial Calibration

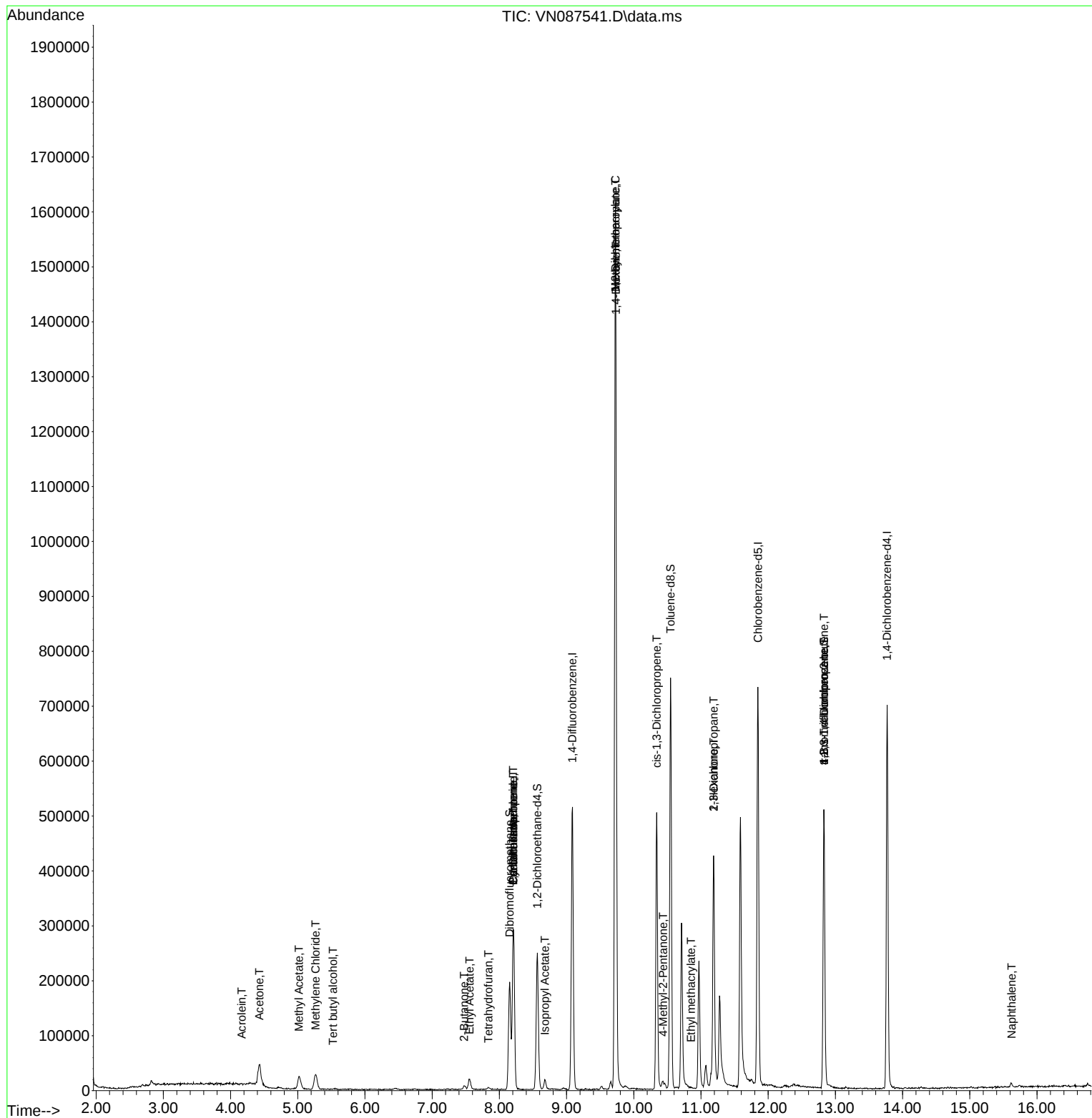
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.206          | 168  | 199451              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.088          | 114  | 417141              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.847         | 117  | 385827              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.770         | 152  | 173385              | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.565          | 65   | 204257              | 60.355 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 120.720% |        |        |          |
| 35) Dibromofluoromethane      | 8.153          | 113  | 138862              | 48.259 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 96.520%  |        |        |          |
| 50) Toluene-d8                | 10.547         | 98   | 472710              | 46.054 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 92.100%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.829         | 95   | 184001              | 48.522 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 97.040%  |        |        |          |
| Target Compounds              |                |      |                     |        |        |          |
|                               |                |      |                     |        | Qvalue |          |
| 11) Tert butyl alcohol        | 5.524          | 59   | 342                 | 0.532  | ug/l # | 72       |
| 13) Acrolein                  | 4.165          | 56   | 237                 | 0.460  | ug/l # | 1        |
| 16) Acetone                   | 4.430          | 43   | 73070               | 46.049 | ug/l   | 92       |
| 18) Methyl Acetate            | 5.018          | 43   | 52084               | 13.065 | ug/l # | 72       |
| 20) Methylene Chloride        | 5.265          | 84   | 20937               | 7.258  | ug/l # | 80       |
| 25) 2-Butanone                | 7.477          | 43   | 11306               | 4.611  | ug/l   | 95       |
| 29) Tetrahydrofuran           | 7.835          | 42   | 1609                | 1.010  | ug/l # | 82       |
| 31) Cyclohexane               | 8.206          | 56   | 6463                | 1.553  | ug/l # | 26       |
| 36) 1,1-Dichloropropene       | 8.206          | 75   | 19611               | 5.159  | ug/l # | 46       |
| 37) Ethyl Acetate             | 7.559          | 43   | 30339               | 5.526  | ug/l   | 98       |
| 38) Carbon Tetrachloride      | 8.206          | 117  | 23891               | 5.705  | ug/l # | 13       |
| 43) Isopropyl Acetate         | 8.677          | 43   | 20562               | 2.413  | ug/l   | 92       |
| 45) 1,2-Dichloropropane       | 9.729          | 63   | 2311                | 0.740  | ug/l # | 41       |
| 48) Methyl methacrylate       | 9.729          | 41   | 160596              | 41.855 | ug/l # | 15       |
| 49) 1,4-Dioxane               | 9.735          | 88   | 160                 | 2.723  | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.435         | 43   | 6512                | 1.208  | ug/l # | 80       |
| 54) cis-1,3-Dichloropropene   | 10.341         | 75   | 86774               | 17.630 | ug/l # | 74       |
| 56) Ethyl methacrylate        | 10.853         | 69   | 68                  | 0.648  | ug/l # | 24       |
| 57) 1,3-Dichloropropane       | 11.188         | 76   | 4722                | 0.903  | ug/l # | 42       |
| 59) 2-Hexanone                | 11.188         | 43   | 90096               | 25.192 | ug/l # | 47       |
| 76) 1,2,3-Trichloropropane    | 12.829         | 75   | 105015              | 27.010 | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.829         | 75   | 105015              | 73.903 | ug/l # | 8        |
| 95) Naphthalene               | 15.623         | 128  | 6298                | 0.575  | ug/l # | 85       |
| -----                         |                |      |                     |        |        |          |

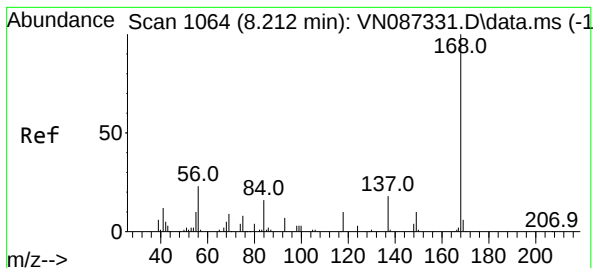
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Jul 17 02:56:13 2025  
Response via : Initial Calibration

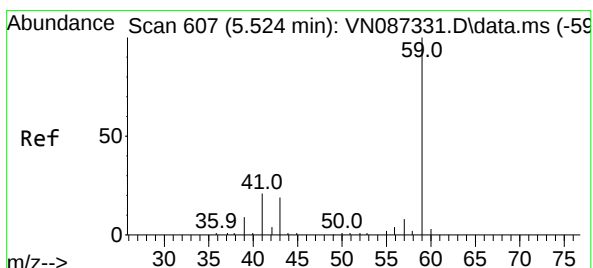
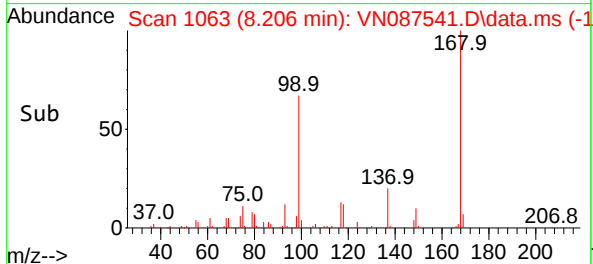
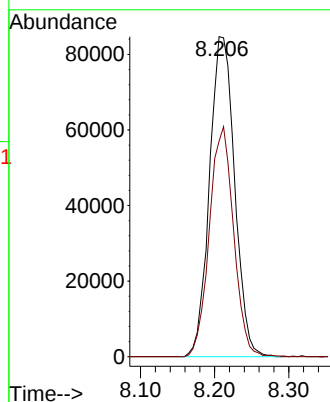
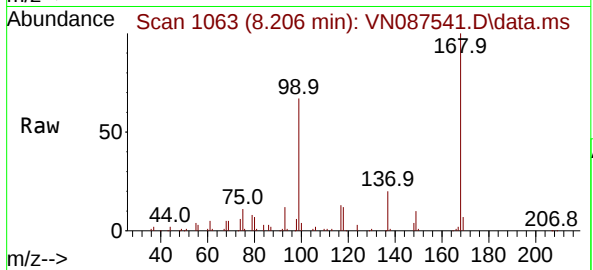




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.206 min Scan# 1063  
Delta R.T. -0.006 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

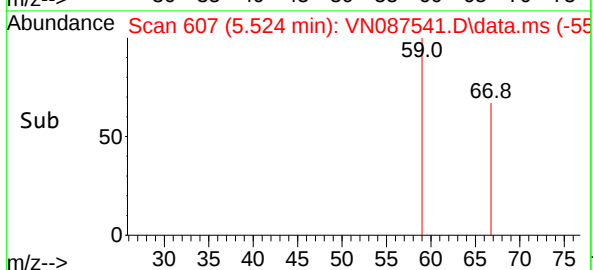
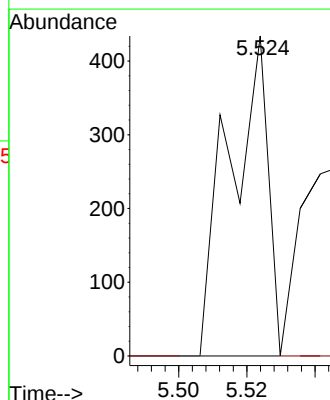
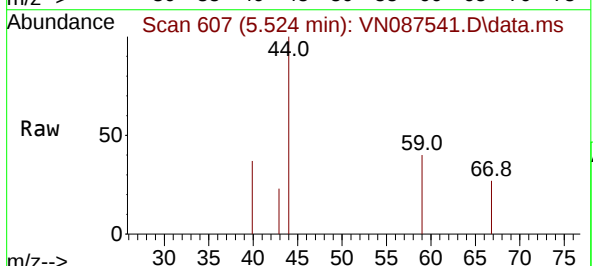
Instrument :  
MSVOA\_N  
ClientSampleId :

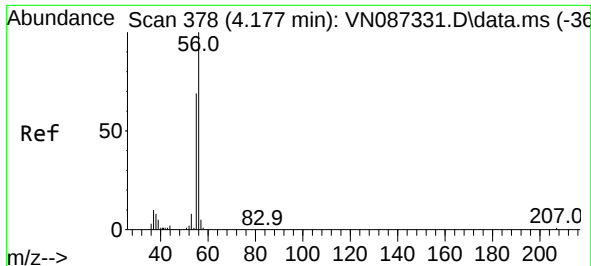
Tgt Ion:168 Resp: 199451  
Ion Ratio Lower Upper  
168 100  
99 67.4 47.9 71.9



#11  
Tert butyl alcohol  
Concen: 0.532 ug/l  
RT: 5.524 min Scan# 607  
Delta R.T. 0.000 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

Tgt Ion: 59 Resp: 342  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#





#13

Acrolein

Concen: 0.460 ug/l

RT: 4.165 min Scan# 31

Delta R.T. -0.012 min

Lab File: VN087541.D

Acq: 13 Aug 2025 17:27

Instrument :

MSVOA\_N

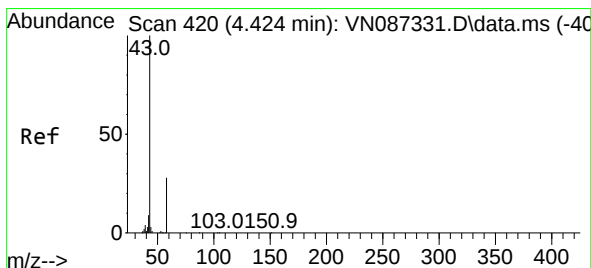
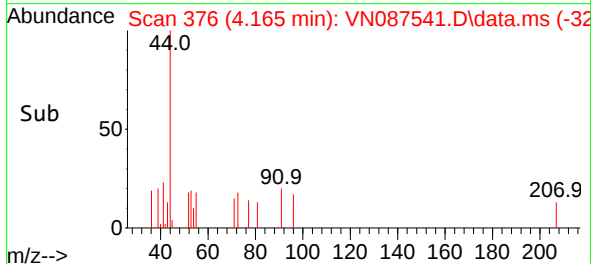
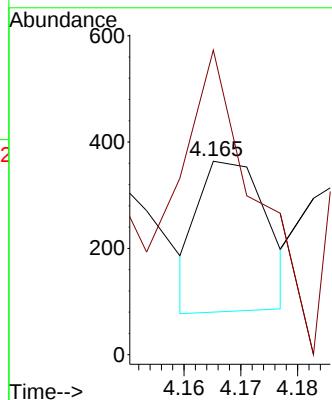
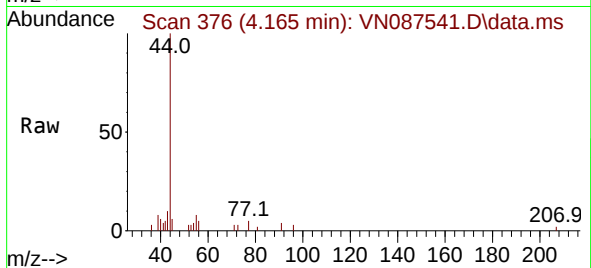
ClientSampleId :

Tgt Ion: 56 Resp: 237

Ion Ratio Lower Upper

56 100

55 219.0 56.2 84.4#



#16

Acetone

Concen: 46.049 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.006 min

Lab File: VN087541.D

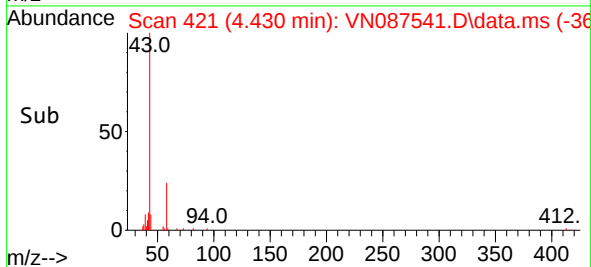
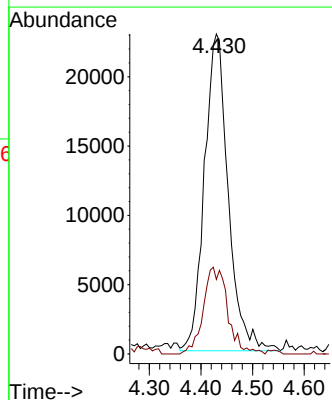
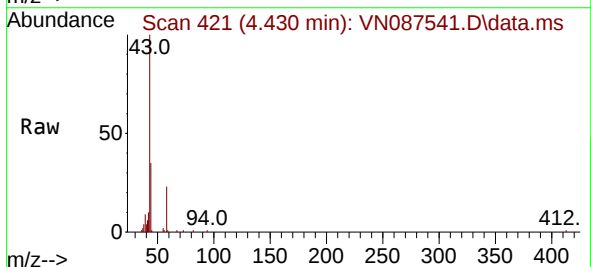
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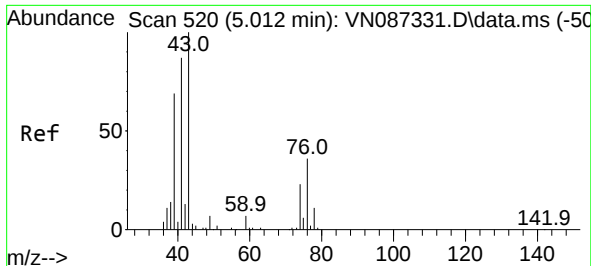
Tgt Ion: 43 Resp: 73070

Ion Ratio Lower Upper

43 100

58 23.6 22.3 33.5

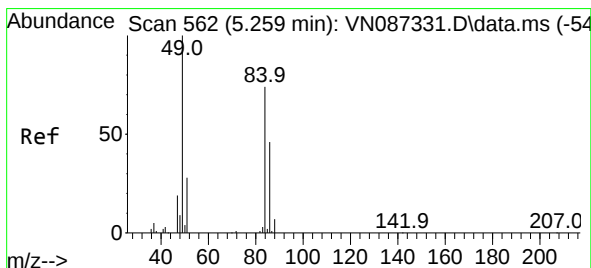
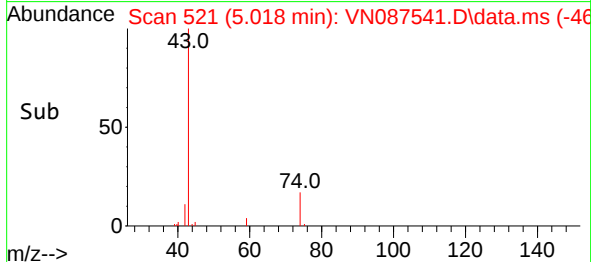
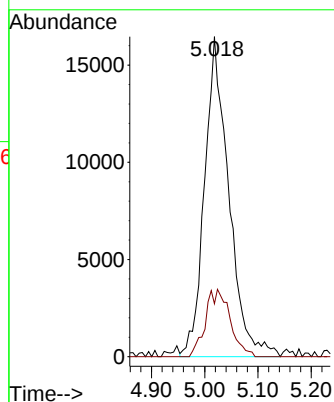
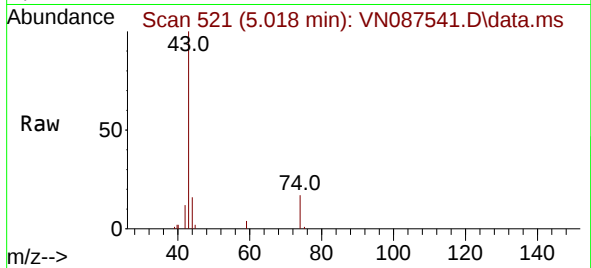




#18  
Methyl Acetate  
Concen: 13.065 ug/l  
RT: 5.018 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

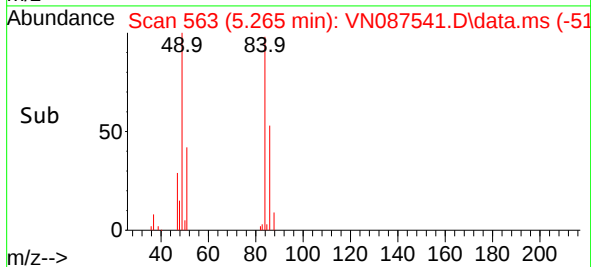
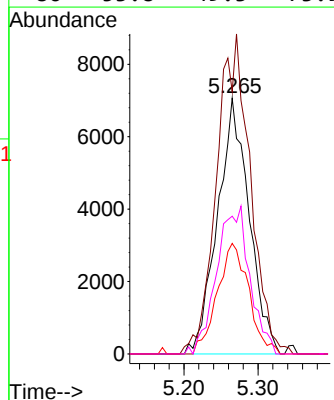
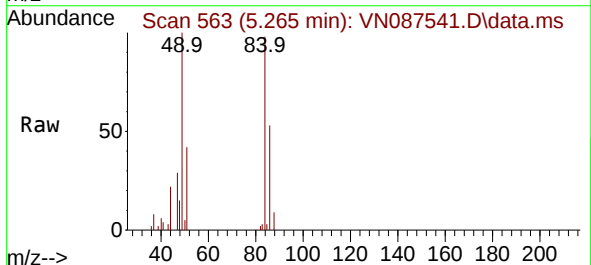
Instrument :  
MSVOA\_N  
ClientSampleId :

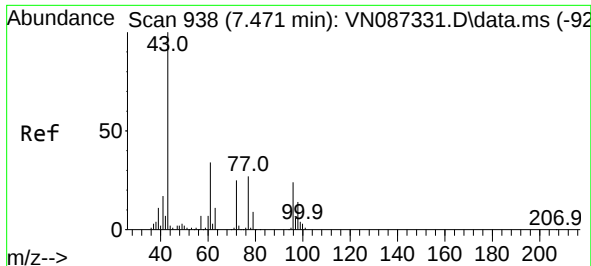
Tgt Ion: 43 Resp: 52084  
Ion Ratio Lower Upper  
43 100  
74 9.0 17.8 26.6#



#20  
Methylene Chloride  
Concen: 7.258 ug/l  
RT: 5.265 min Scan# 563  
Delta R.T. 0.006 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

Tgt Ion: 84 Resp: 20937  
Ion Ratio Lower Upper  
84 100  
49 102.5 107.5 161.3#  
51 43.2 30.2 45.2  
86 53.8 49.3 73.9

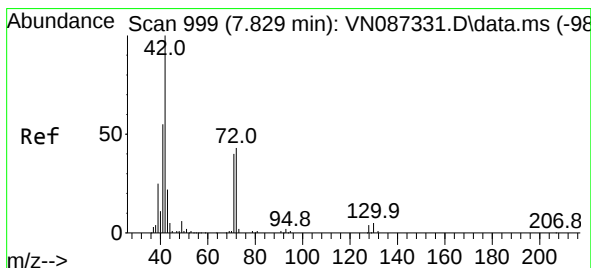
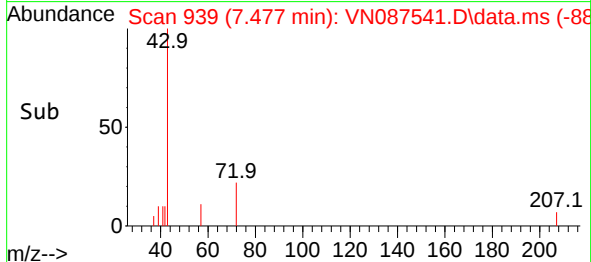
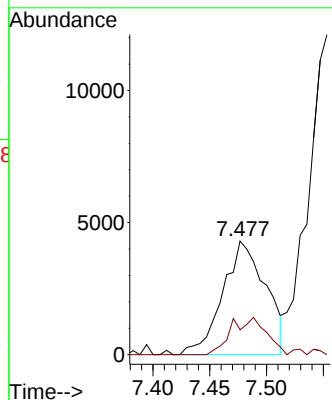
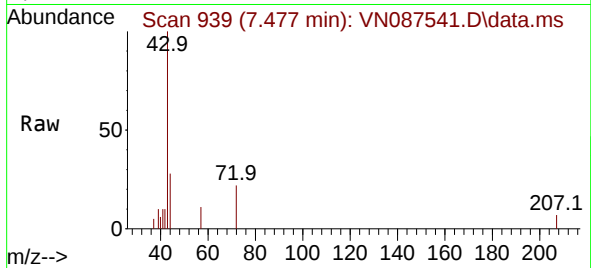




#25  
2-Butanone  
Concen: 4.611 ug/l  
RT: 7.477 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

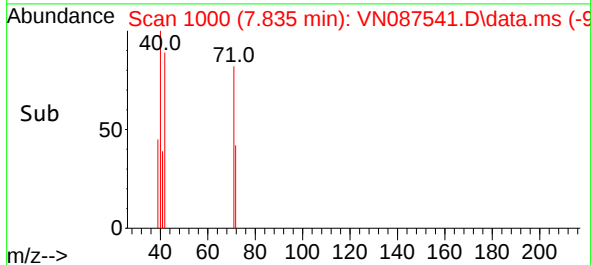
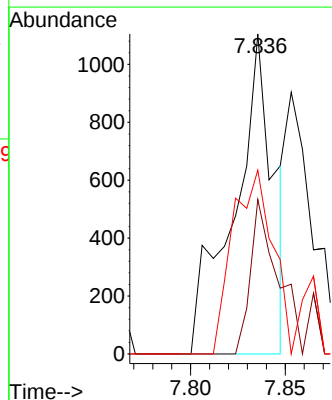
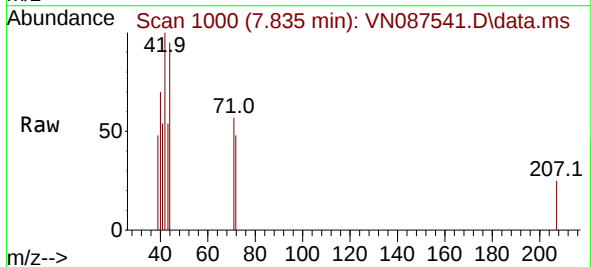
Instrument :  
MSVOA\_N  
ClientSampleId :

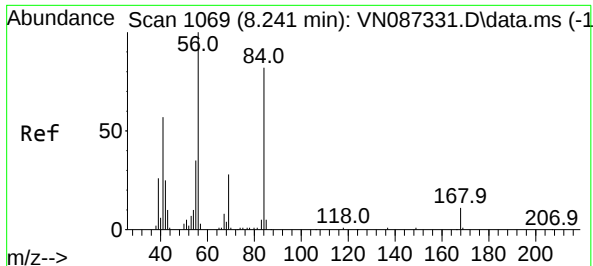
Tgt Ion: 43 Resp: 11306  
Ion Ratio Lower Upper  
43 100  
72 22.0 19.6 29.4



#29  
Tetrahydrofuran  
Concen: 1.010 ug/l  
RT: 7.835 min Scan# 1000  
Delta R.T. 0.006 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

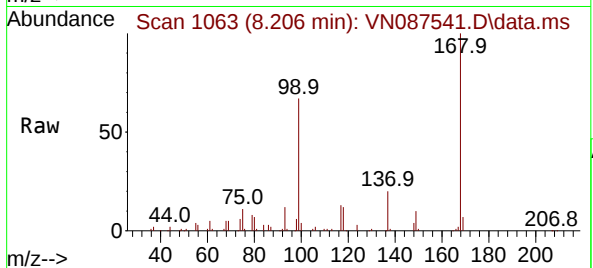
Tgt Ion: 42 Resp: 1609  
Ion Ratio Lower Upper  
42 100  
72 37.7 33.4 50.0  
71 58.2 31.2 46.8#



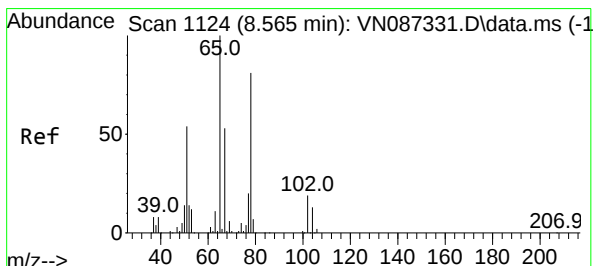
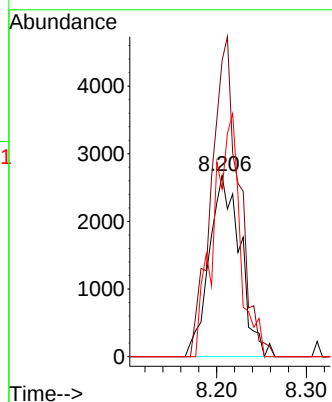
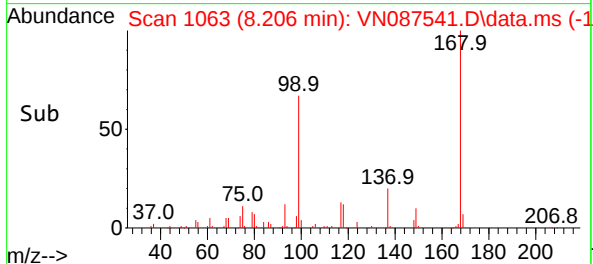


#31  
Cyclohexane  
Concen: 1.553 ug/l  
RT: 8.206 min Scan# 1063  
Delta R.T. -0.035 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

Instrument :  
MSVOA\_N  
ClientSampleId :

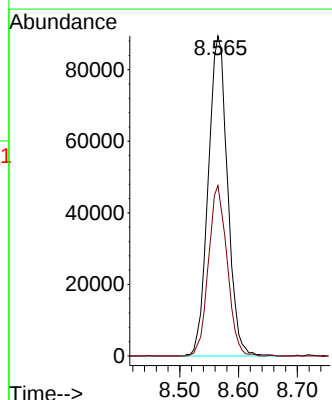
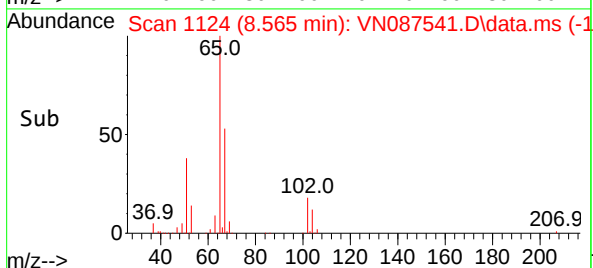
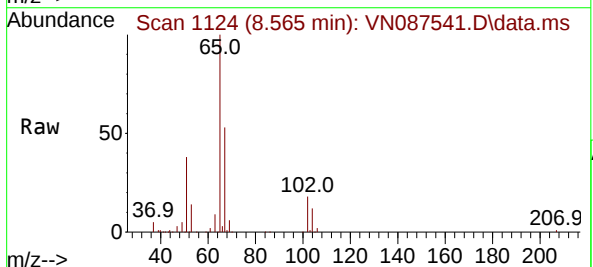


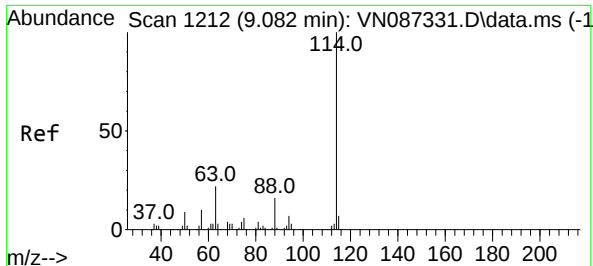
Tgt Ion: 56 Resp: 6463  
Ion Ratio Lower Upper  
56 100  
69 163.5 22.7 34.1#  
84 92.6 65.8 98.6



#33  
1,2-Dichloroethane-d4  
Concen: 60.355 ug/l  
RT: 8.565 min Scan# 1124  
Delta R.T. 0.000 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

Tgt Ion: 65 Resp: 204257  
Ion Ratio Lower Upper  
65 100  
67 51.4 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.088 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN087541.D

Acq: 13 Aug 2025 17:27

Instrument :

MSVOA\_N

ClientSampleId :

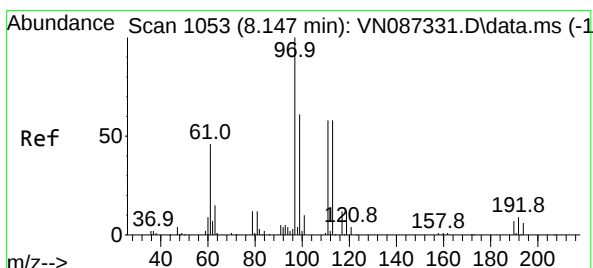
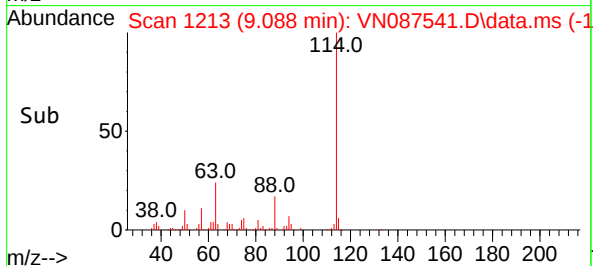
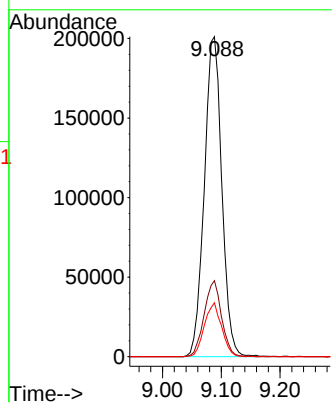
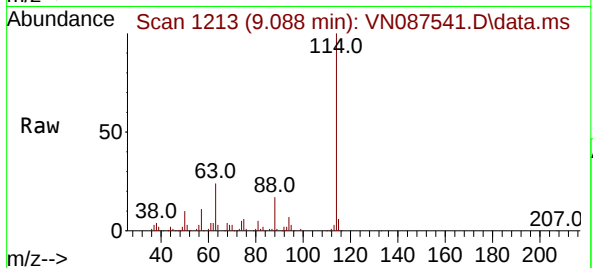
Tgt Ion:114 Resp: 417141

Ion Ratio Lower Upper

114 100

63 23.7 0.0 44.6

88 16.9 0.0 32.8



#35

Dibromofluoromethane

Concen: 48.259 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087541.D

Acq: 13 Aug 2025 17:27

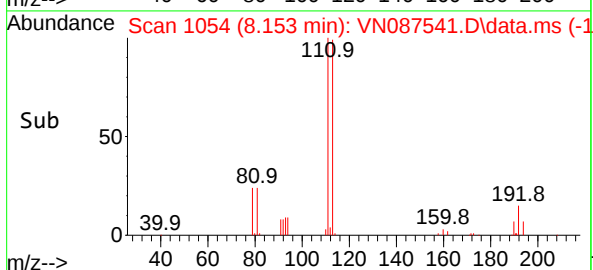
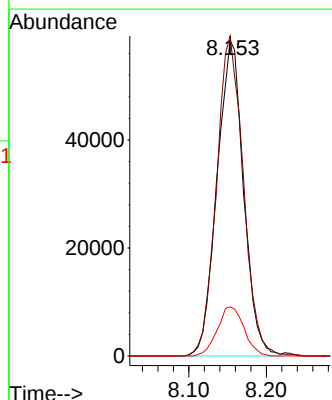
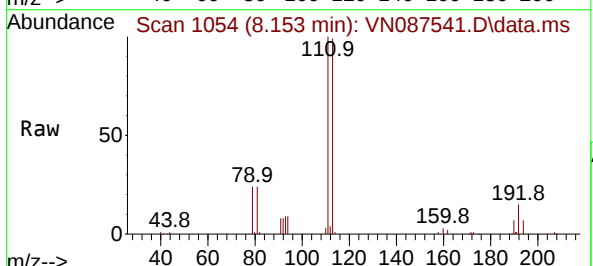
Tgt Ion:113 Resp: 138862

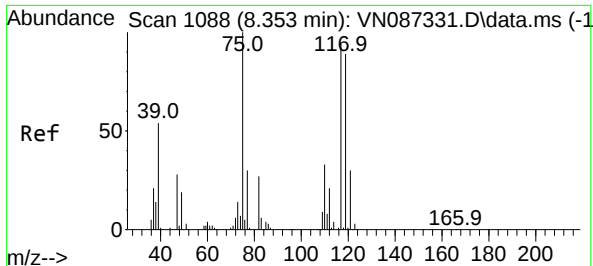
Ion Ratio Lower Upper

113 100

111 102.3 82.5 123.7

192 15.7 13.7 20.5





#36

1,1-Dichloropropene

Concen: 5.159 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087541.D

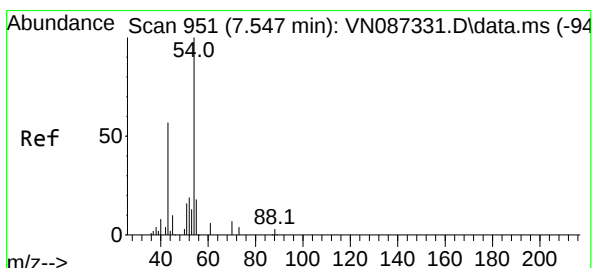
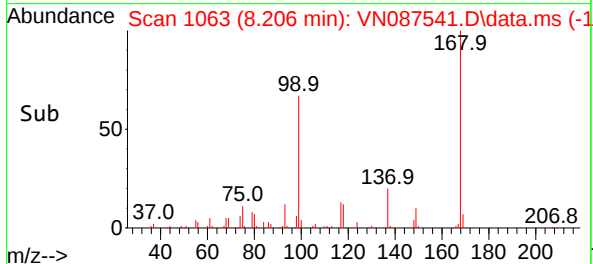
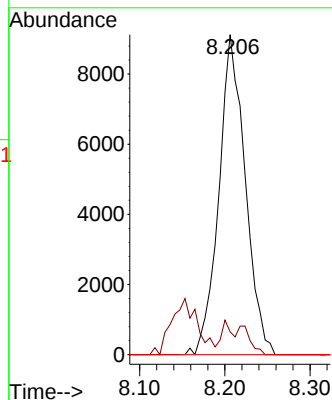
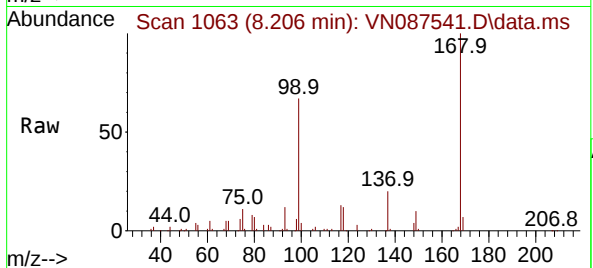
Acq: 13 Aug 2025 17:27

Instrument :

MSVOA\_N

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 19611 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 4.6   | 16.7  | 50.1# |
| 77       | 0.0   | 25.2  | 37.8# |



#37

Ethyl Acetate

Concen: 5.526 ug/l

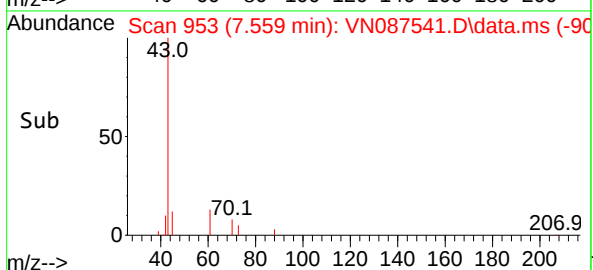
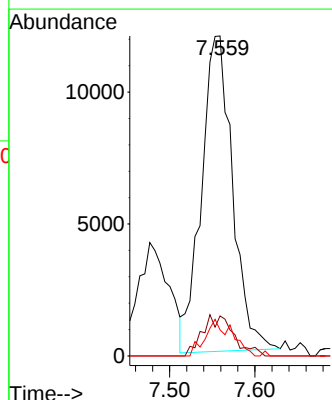
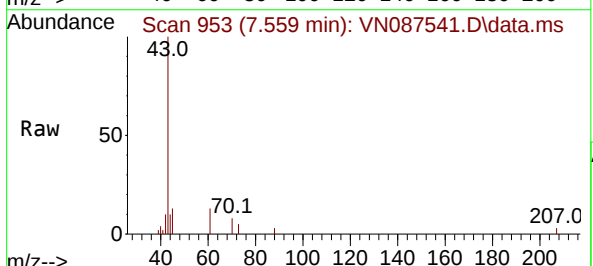
RT: 7.559 min Scan# 953

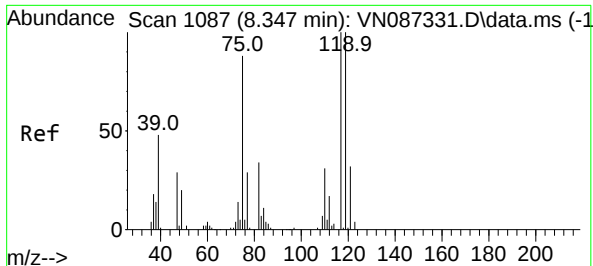
Delta R.T. 0.012 min

Lab File: VN087541.D

Acq: 13 Aug 2025 17:27

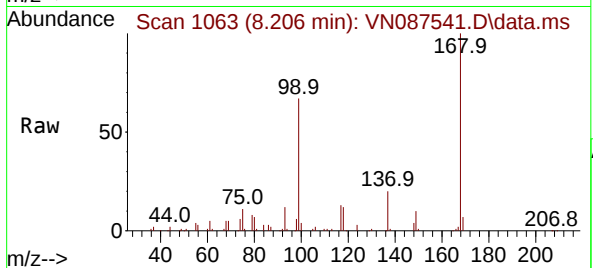
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 30339 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 13.0  | 10.9  | 16.3  |
| 70       | 10.0  | 7.4   | 11.0  |



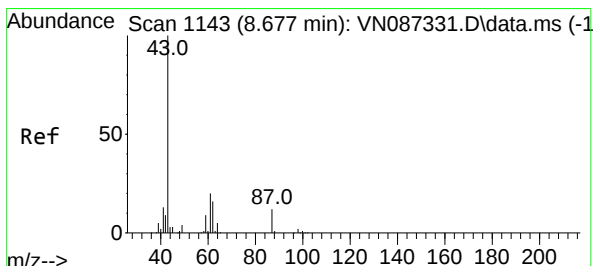
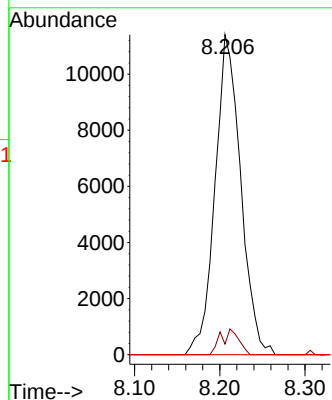
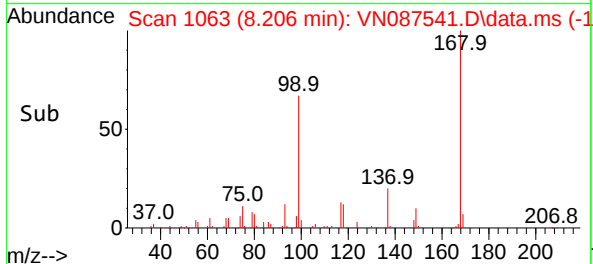


#38  
Carbon Tetrachloride  
Concen: 5.705 ug/l  
RT: 8.206 min Scan# 1063  
Delta R.T. -0.141 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

Instrument :  
MSVOA\_N  
ClientSampleId :

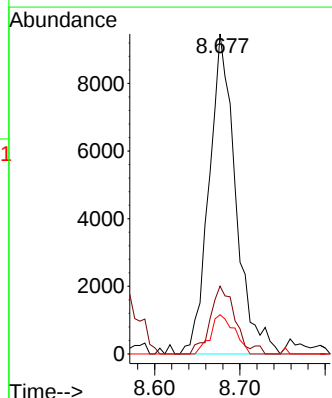
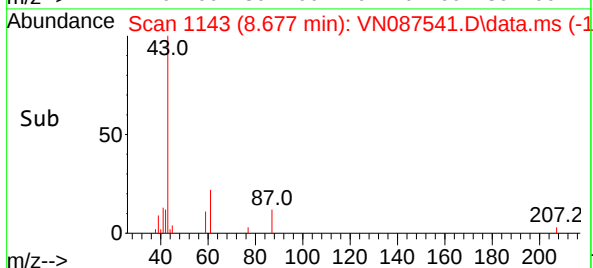
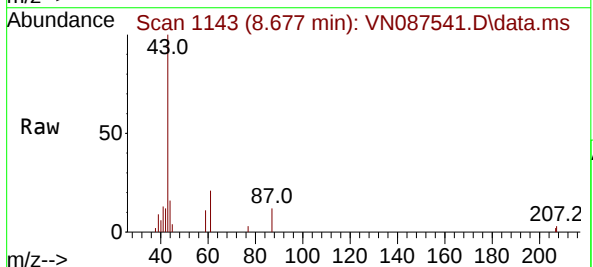


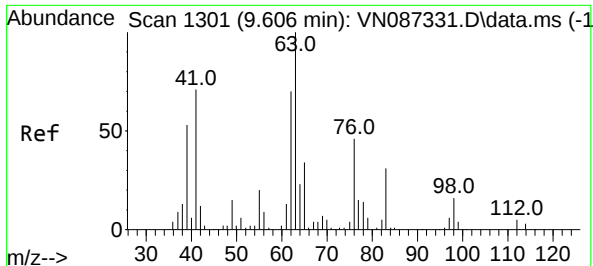
Tgt Ion:117 Resp: 23891  
Ion Ratio Lower Upper  
117 100  
119 3.3 80.2 120.2#  
121 0.0 25.4 38.2#



#43  
Isopropyl Acetate  
Concen: 2.413 ug/l  
RT: 8.677 min Scan# 1143  
Delta R.T. -0.000 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

Tgt Ion: 43 Resp: 20562  
Ion Ratio Lower Upper  
43 100  
61 19.9 19.8 29.8  
87 11.0 9.8 14.6





#45

1,2-Dichloropropane

Concen: 0.740 ug/l

RT: 9.729 min Scan# 1322

Delta R.T. 0.123 min

Lab File: VN087541.D

Acq: 13 Aug 2025 17:27

Instrument :

MSVOA\_N

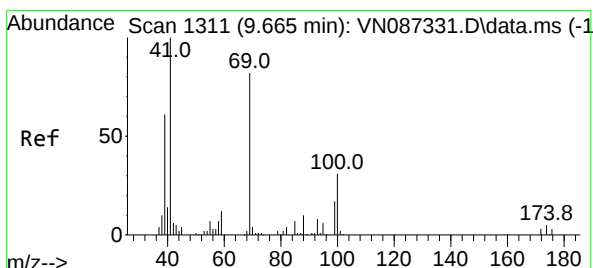
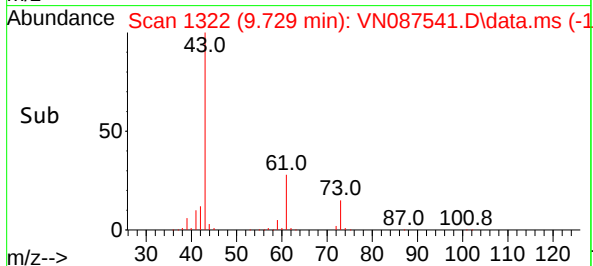
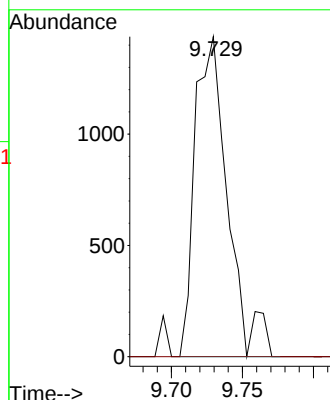
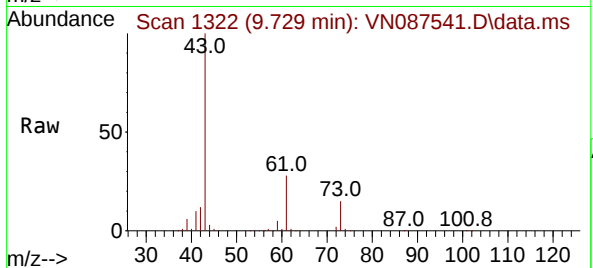
ClientSampleId :

Tgt Ion: 63 Resp: 2311

Ion Ratio Lower Upper

63 100

65 0.0 27.0 40.4#



#48

Methyl methacrylate

Concen: 41.855 ug/l

RT: 9.729 min Scan# 1322

Delta R.T. 0.065 min

Lab File: VN087541.D

Acq: 13 Aug 2025 17:27

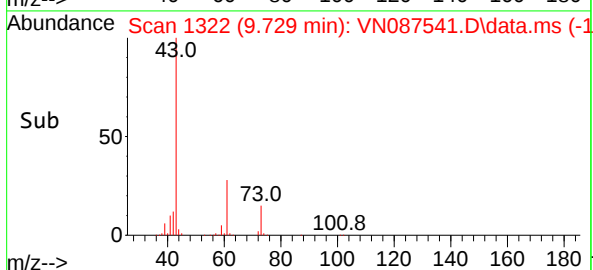
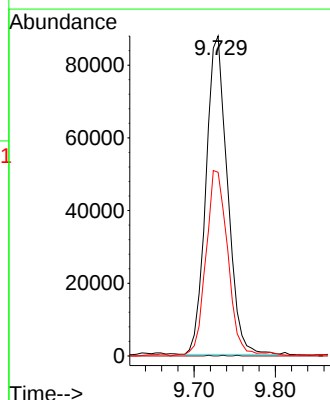
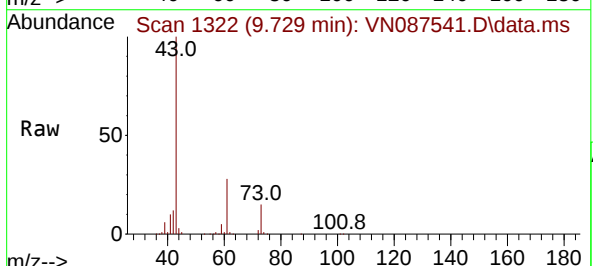
Tgt Ion: 41 Resp: 160596

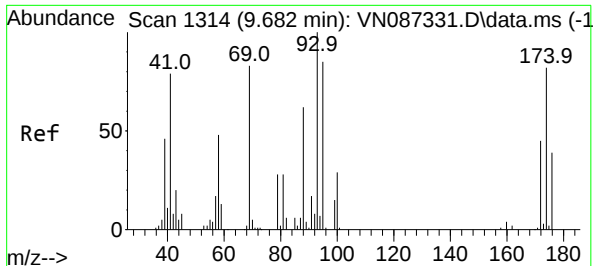
Ion Ratio Lower Upper

41 100

69 0.0 64.1 96.1#

39 0.0 45.5 68.3#





#49

1,4-Dioxane

Concen: 2.723 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.053 min

Lab File: VN087541.D

Acq: 13 Aug 2025 17:27

Instrument :

MSVOA\_N

ClientSampleId :

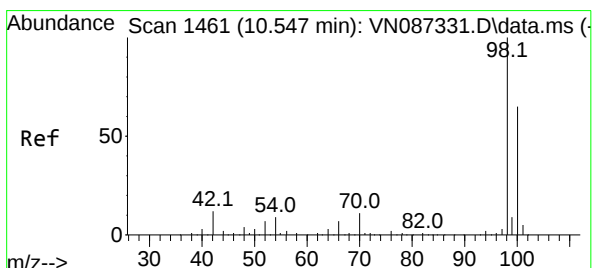
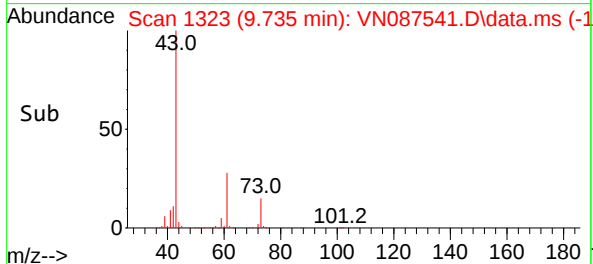
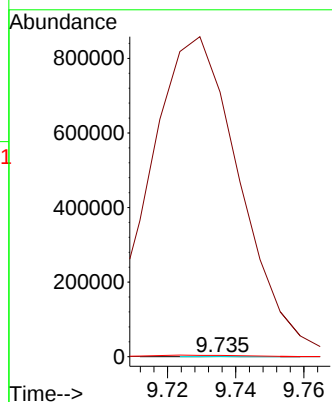
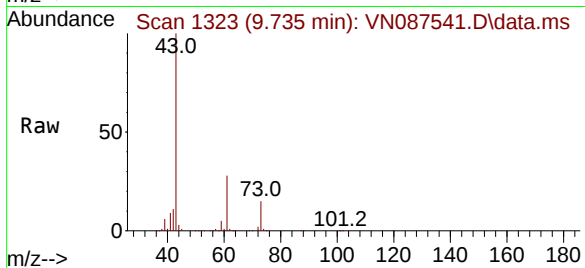
Tgt Ion: 88 Resp: 160

Ion Ratio Lower Upper

88 100

43 1017545.6 0.0 0.0#

58 5171.3 61.1 91.7#



#50

Toluene-d8

Concen: 46.054 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN087541.D

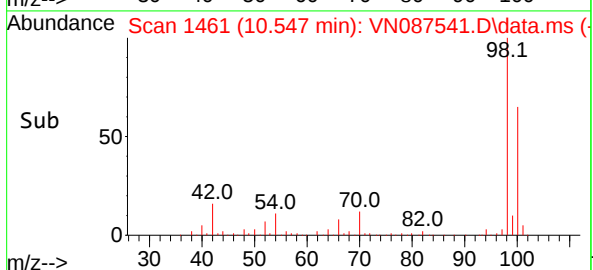
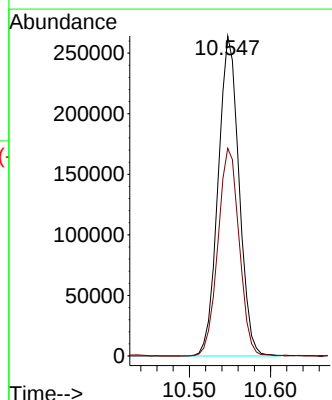
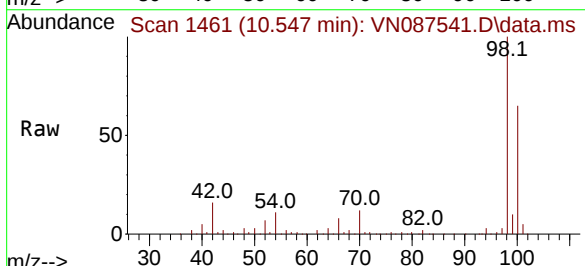
Acq: 13 Aug 2025 17:27

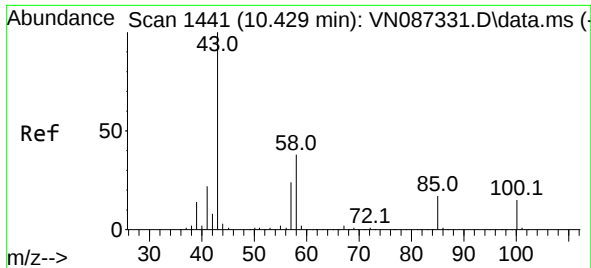
Tgt Ion: 98 Resp: 472710

Ion Ratio Lower Upper

98 100

100 66.0 52.1 78.1

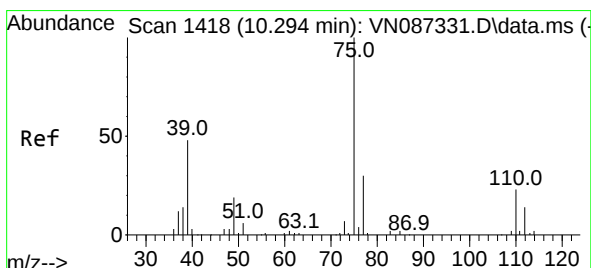
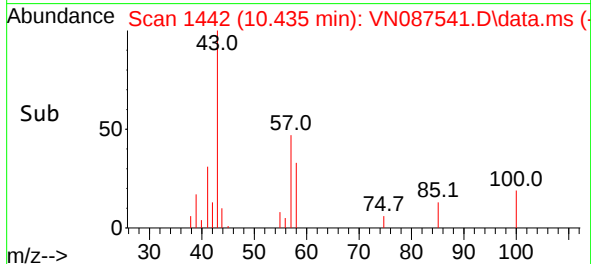
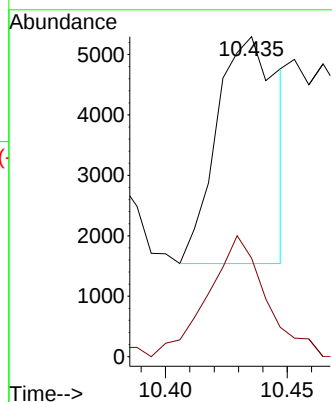
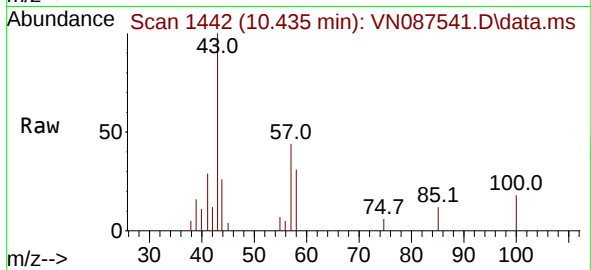




#51  
4-Methyl-2-Pentanone  
Concen: 1.208 ug/l  
RT: 10.435 min Scan# 1441  
Delta R.T. 0.006 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

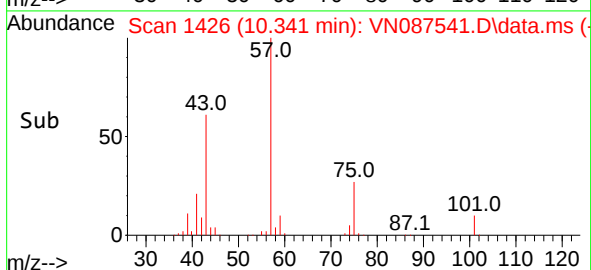
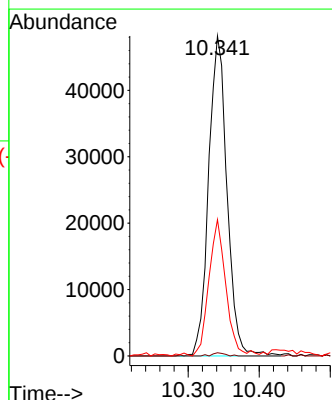
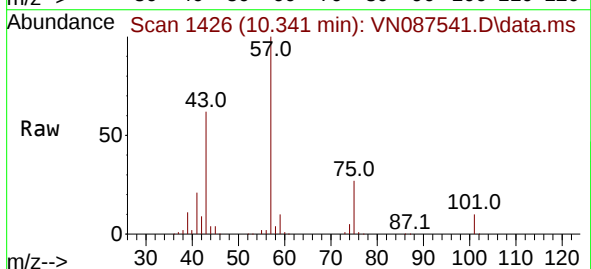
Instrument :  
MSVOA\_N  
ClientSampleId :

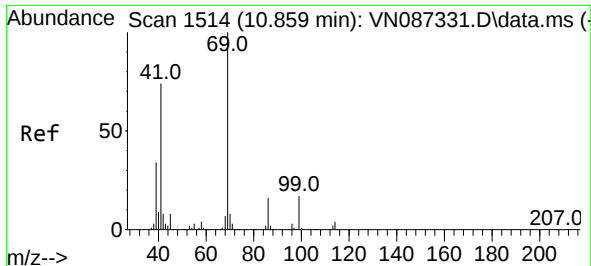
Tgt Ion: 43 Resp: 6512  
Ion Ratio Lower Upper  
43 100  
58 50.6 30.8 46.2#



#54  
cis-1,3-Dichloropropene  
Concen: 17.630 ug/l  
RT: 10.341 min Scan# 1426  
Delta R.T. 0.047 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

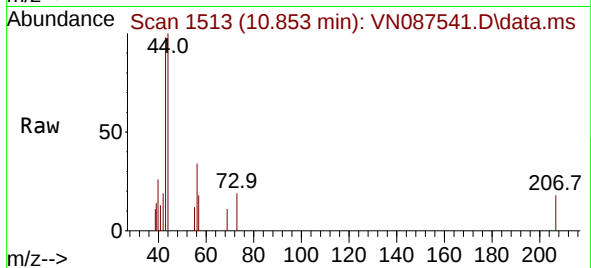
Tgt Ion: 75 Resp: 86774  
Ion Ratio Lower Upper  
75 100  
77 1.0 24.2 36.2#  
39 42.2 38.4 57.6



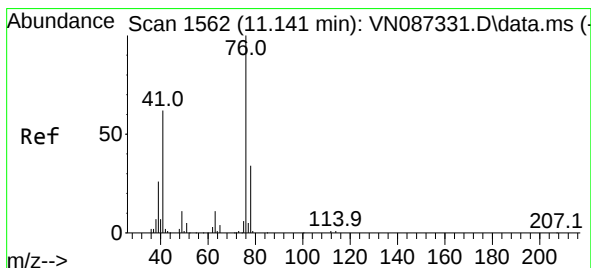
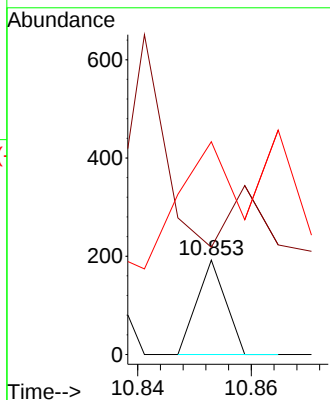
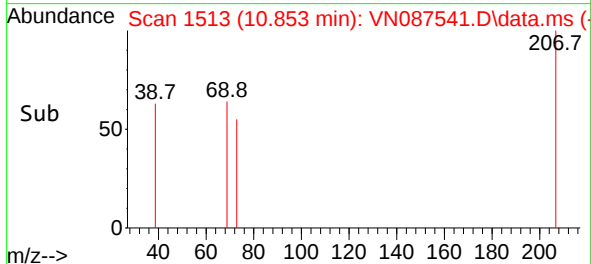


#56  
Ethyl methacrylate  
Concen: 0.648 ug/l  
RT: 10.853 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

Instrument :  
MSVOA\_N  
ClientSampleId :

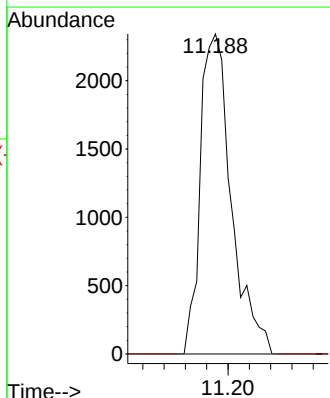
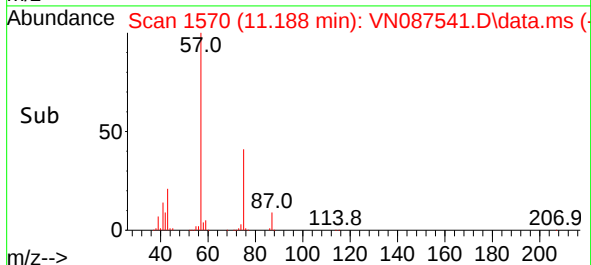
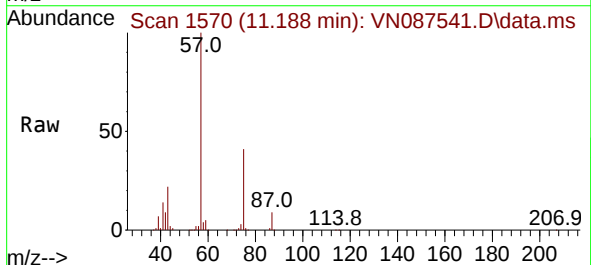


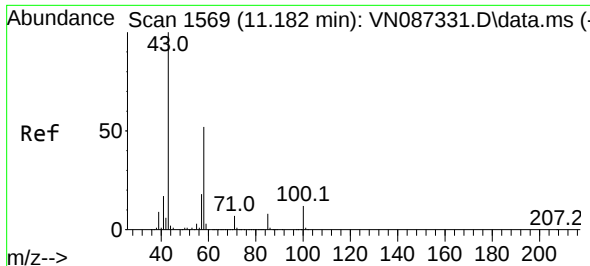
Tgt Ion: 69 Resp: 68  
Ion Ratio Lower Upper  
69 100  
41 0.0 55.1 82.7#  
39 0.0 27.9 41.9#



#57  
1,3-Dichloropropane  
Concen: 0.903 ug/l  
RT: 11.188 min Scan# 1570  
Delta R.T. 0.047 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

Tgt Ion: 76 Resp: 4722  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.0 39.0#

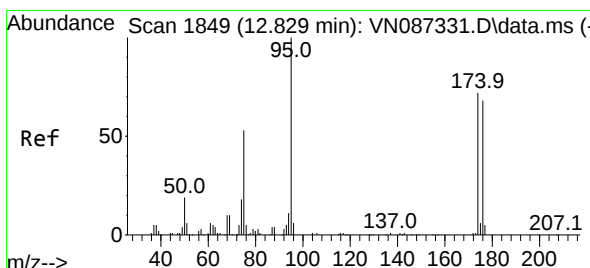
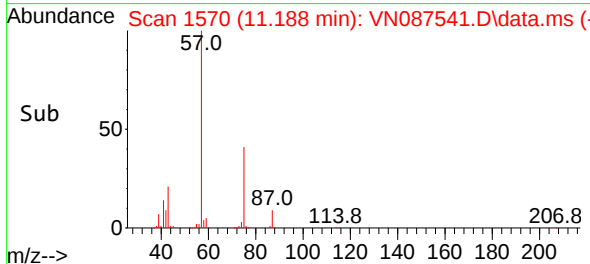
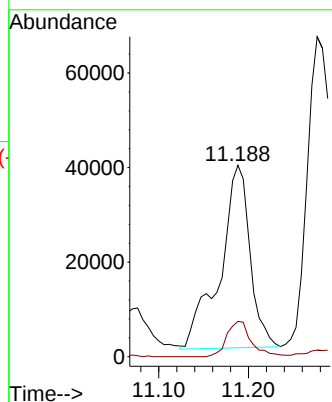
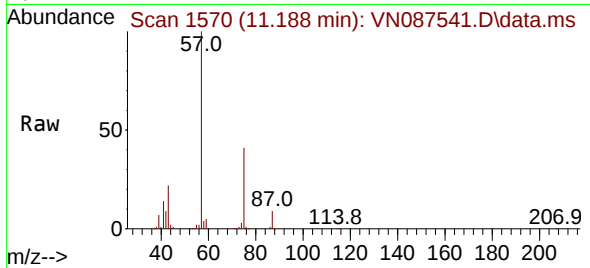




#59  
2-Hexanone  
Concen: 25.192 ug/l  
RT: 11.188 min Scan# 1569  
Delta R.T. 0.006 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

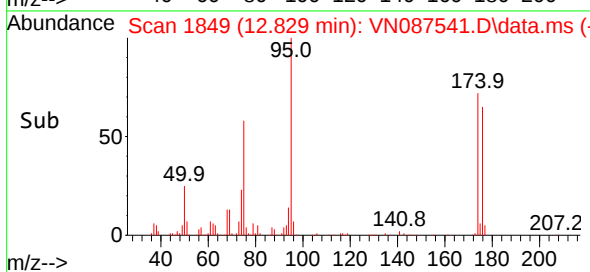
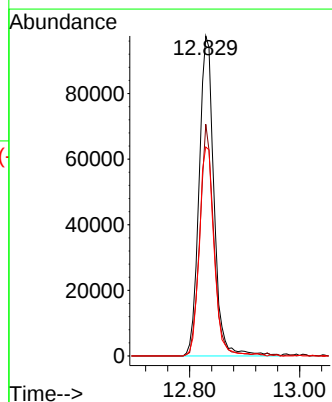
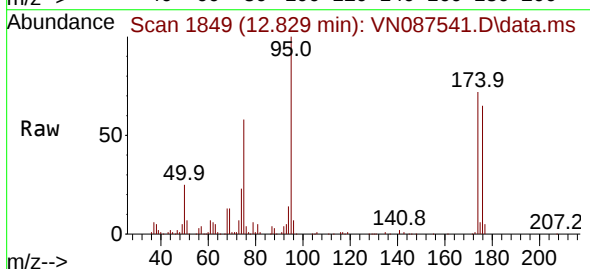
Instrument :  
MSVOA\_N  
ClientSampleId :

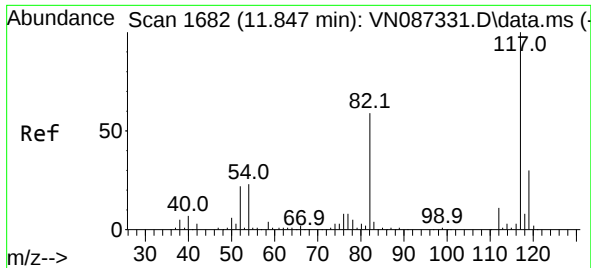
Tgt Ion: 43 Resp: 90096  
Ion Ratio Lower Upper  
43 100  
58 15.9 26.7 80.0#



#62  
4-Bromofluorobenzene  
Concen: 48.522 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

Tgt Ion: 95 Resp: 184001  
Ion Ratio Lower Upper  
95 100  
174 67.2 0.0 149.4  
176 64.9 0.0 141.2

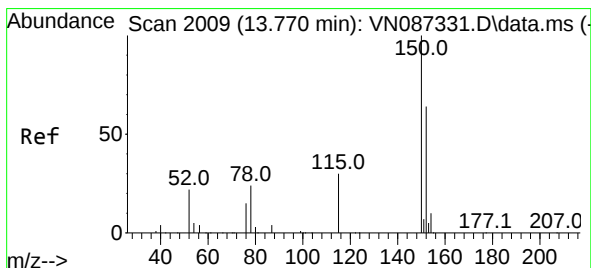
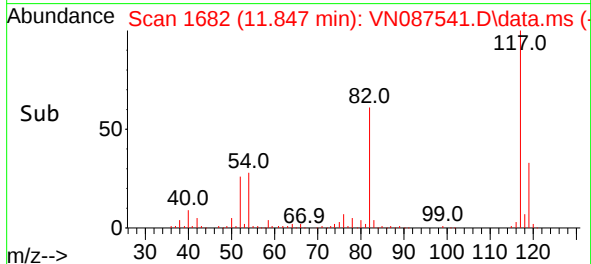
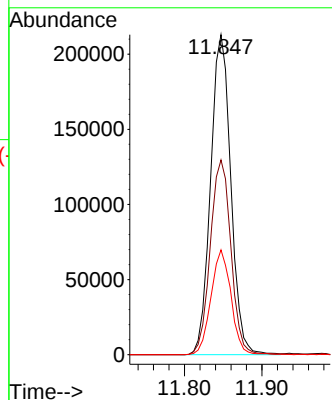
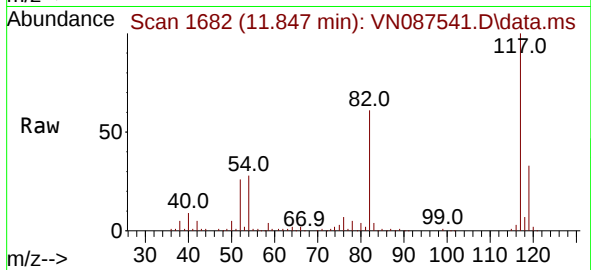




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.847 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

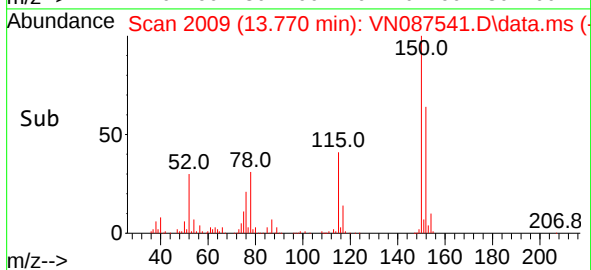
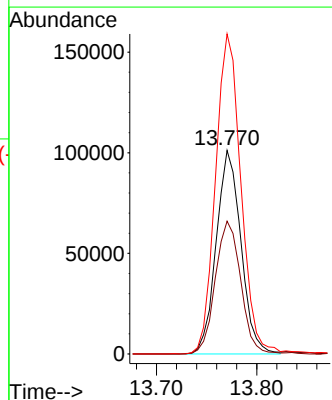
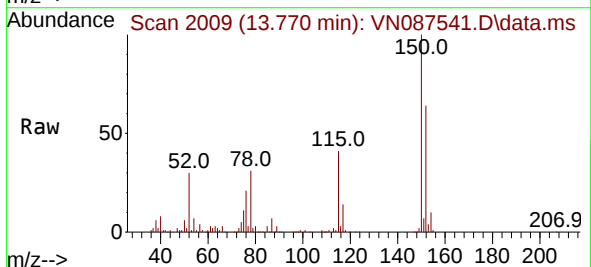
Instrument :  
MSVOA\_N  
ClientSampleId :

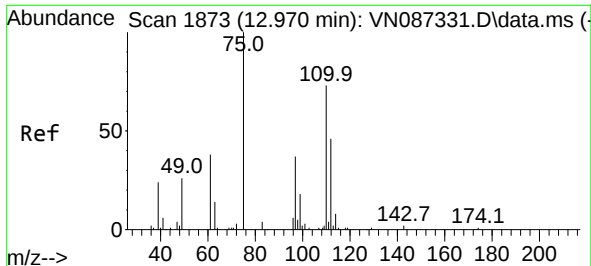
Tgt Ion:117 Resp: 385827  
Ion Ratio Lower Upper  
117 100  
82 60.8 47.4 71.2  
119 32.7 23.8 35.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.770 min Scan# 2009  
Delta R.T. 0.000 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

Tgt Ion:152 Resp: 173385  
Ion Ratio Lower Upper  
152 100  
115 67.1 31.1 93.5  
150 162.6 0.0 349.0

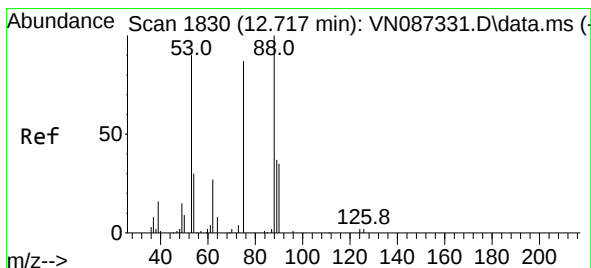
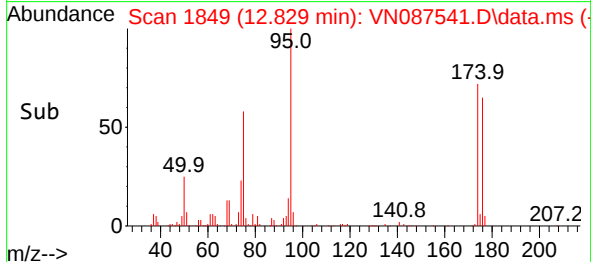
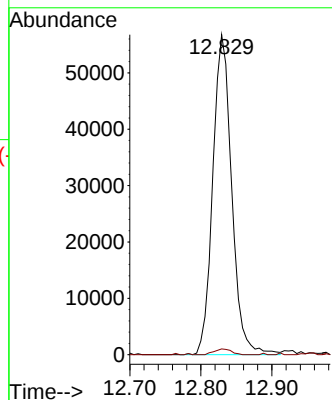
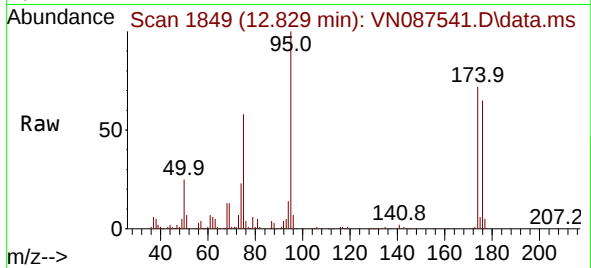




#76  
1,2,3-Trichloropropane  
Concen: 27.010 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. -0.141 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

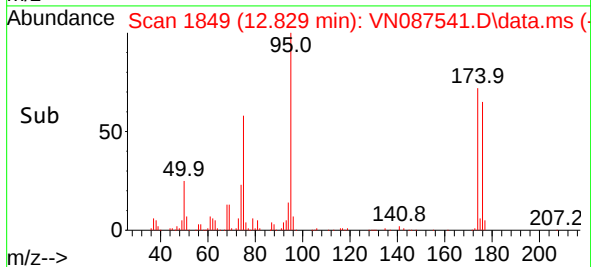
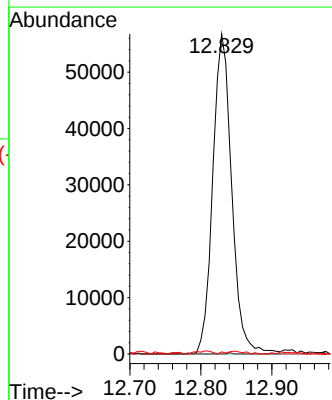
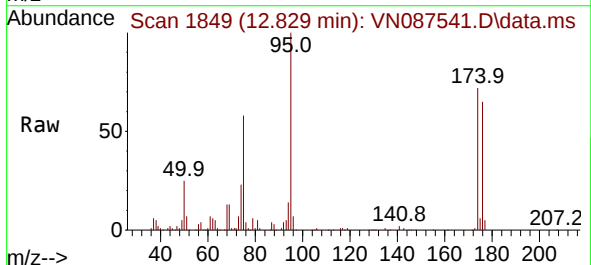
Instrument :  
MSVOA\_N  
ClientSampleId :

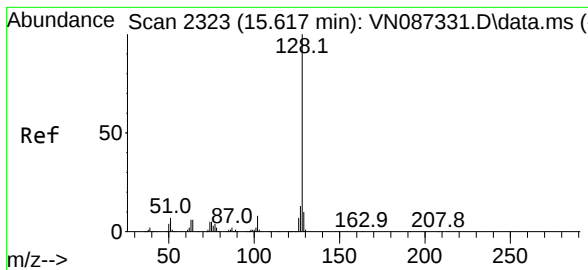
Tgt Ion: 75 Resp: 105015  
Ion Ratio Lower Upper  
75 100  
77 1.6 94.5 283.6#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 73.903 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.112 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

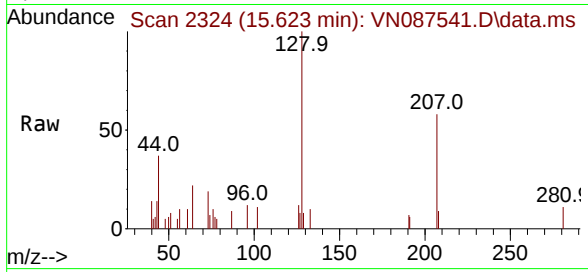
Tgt Ion: 75 Resp: 105015  
Ion Ratio Lower Upper  
75 100  
53 0.1 83.5 125.3#  
89 0.9 38.4 57.6#





#95  
Naphthalene  
Concen: 0.575 ug/l  
RT: 15.623 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VN087541.D  
Acq: 13 Aug 2025 17:27

Instrument :  
MSVOA\_N  
ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 6298  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 11.6  | 10.5  | 15.7  |
| 129      | 0.0   | 8.4   | 12.6# |

