

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN013125\  
 Data File : VN085605.D  
 Acq On : 31 Jan 2025 16:28  
 Operator : JC\MD  
 Sample : PB166357ZHE#10  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jan 31 22:31:10 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011425W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 15 02:16:08 2025  
 Response via : Initial Calibration

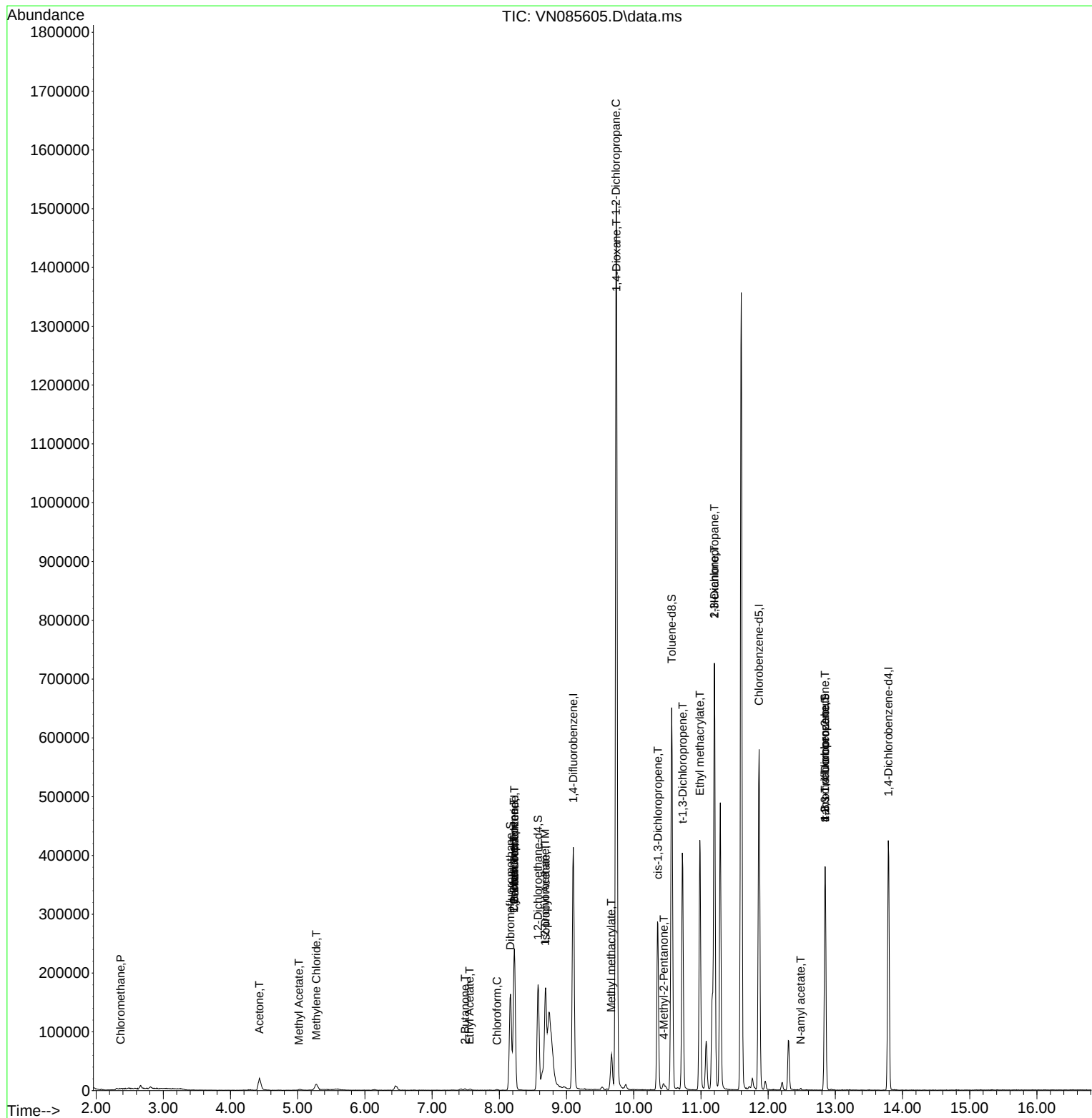
| Compound                      | R.T.     | QIon  | Response | Conc   | Units    | Dev(Min) |
|-------------------------------|----------|-------|----------|--------|----------|----------|
| Internal Standards            |          |       |          |        |          |          |
| 1) Pentafluorobenzene         | 8.224    | 168   | 158688   | 50.000 | ug/l     | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100    | 114   | 334726   | 50.000 | ug/l     | 0.00     |
| 63) Chlorobenzene-d5          | 11.865   | 117   | 307168   | 50.000 | ug/l     | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788   | 152   | 109447   | 50.000 | ug/l     | 0.00     |
| System Monitoring Compounds   |          |       |          |        |          |          |
| 33) 1,2-Dichloroethane-d4     | 8.577    | 65    | 152961   | 59.714 | ug/l     | 0.00     |
| Spiked Amount 50.000          | Range 74 | - 125 | Recovery | =      | 119.420% |          |
| 35) Dibromofluoromethane      | 8.165    | 113   | 114997   | 49.521 | ug/l     | 0.00     |
| Spiked Amount 50.000          | Range 75 | - 124 | Recovery | =      | 99.040%  |          |
| 50) Toluene-d8                | 10.565   | 98    | 425511   | 51.573 | ug/l     | 0.00     |
| Spiked Amount 50.000          | Range 86 | - 113 | Recovery | =      | 103.140% |          |
| 62) 4-Bromofluorobenzene      | 12.847   | 95    | 124789   | 44.215 | ug/l     | 0.00     |
| Spiked Amount 50.000          | Range 77 | - 121 | Recovery | =      | 88.420%  |          |
| Target Compounds              |          |       |          |        |          | Qvalue   |
| 3) Chloromethane              | 2.365    | 50    | 684      | 0.294  | ug/l #   | 41       |
| 16) Acetone                   | 4.430    | 43    | 39164    | 47.319 | ug/l     | 97       |
| 18) Methyl Acetate            | 5.018    | 43    | 3398     | 1.350  | ug/l #   | 67       |
| 20) Methylene Chloride        | 5.277    | 84    | 7407     | 3.615  | ug/l     | 87       |
| 25) 2-Butanone                | 7.489    | 43    | 4386     | 3.601  | ug/l     | 93       |
| 30) Chloroform                | 7.965    | 83    | 1357     | 0.351  | ug/l #   | 78       |
| 31) Cyclohexane               | 8.218    | 56    | 4601     | 1.415  | ug/l #   | 8        |
| 36) 1,1-Dichloropropene       | 8.218    | 75    | 15263    | 4.683  | ug/l #   | 51       |
| 37) Ethyl Acetate             | 7.559    | 43    | 3814     | 1.159  | ug/l #   | 78       |
| 38) Carbon Tetrachloride      | 8.224    | 117   | 17810    | 4.773  | ug/l #   | 17       |
| 42) 1,2-Dichloroethane        | 8.683    | 62    | 1083     | 0.294  | ug/l #   | 76       |
| 43) Isopropyl Acetate         | 8.688    | 43    | 227884   | 43.233 | ug/l #   | 80       |
| 45) 1,2-Dichloropropane       | 9.735    | 63    | 1743     | 0.697  | ug/l #   | 43       |
| 48) Methyl methacrylate       | 9.665    | 41    | 4620     | 1.948  | ug/l #   | 47       |
| 49) 1,4-Dioxane               | 9.741    | 88    | 74       | 1.852  | ug/l #   | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.447   | 43    | 6418     | 2.098  | ug/l     | 99       |
| 53) t-1,3-Dichloropropene     | 10.730   | 75    | 871      | 0.251  | ug/l #   | 45       |
| 54) cis-1,3-Dichloropropene   | 10.359   | 75    | 45606    | 12.287 | ug/l #   | 72       |
| 56) Ethyl methacrylate        | 10.982   | 69    | 2330     | 2.523  | ug/l #   | 1        |
| 57) 1,3-Dichloropropane       | 11.200   | 76    | 6845     | 1.753  | ug/l #   | 43       |
| 59) 2-Hexanone                | 11.200   | 43    | 87149    | 40.492 | ug/l #   | 57       |
| 74) N-amyl acetate            | 12.482   | 43    | 1910     | 0.575  | ug/l #   | 42       |
| 76) 1,2,3-Trichloropropane    | 12.847   | 75    | 70733    | 31.797 | ug/l #   | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847   | 75    | 70733    | 86.028 | ug/l #   | 3        |

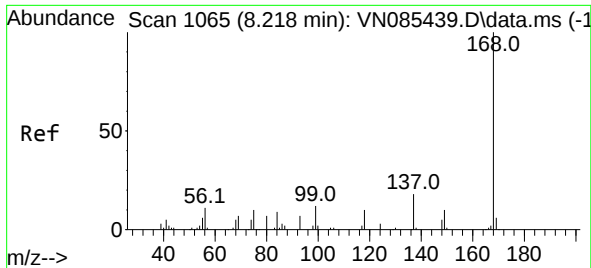
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN013125\  
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Sample : PB166357ZHE#10  
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ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Jan 31 22:31:10 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011425W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jan 15 02:16:08 2025  
Response via : Initial Calibration

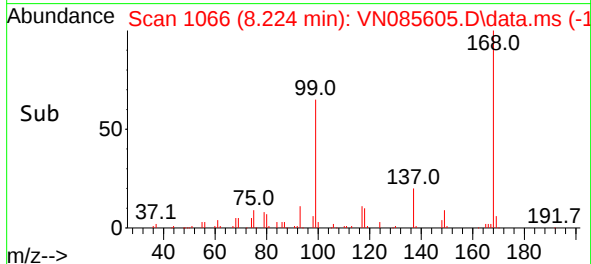
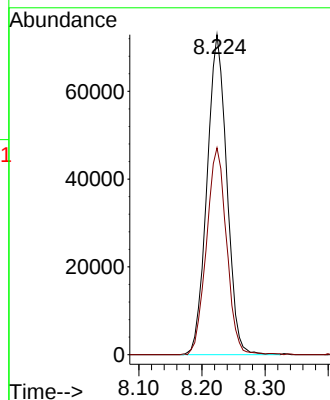
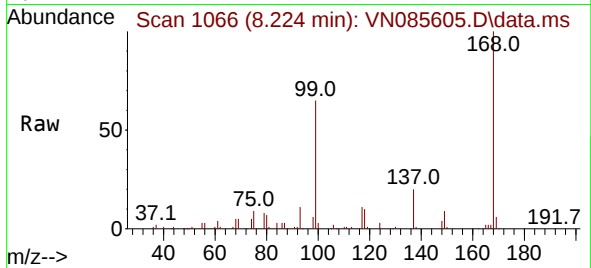




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VN085605.D  
Acq: 31 Jan 2025 16:28

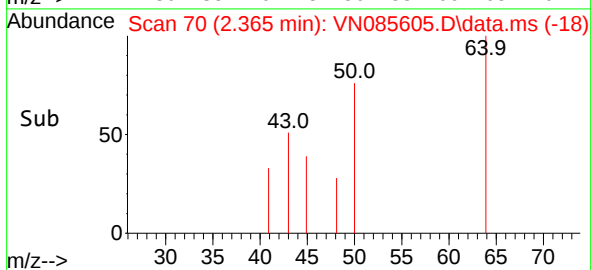
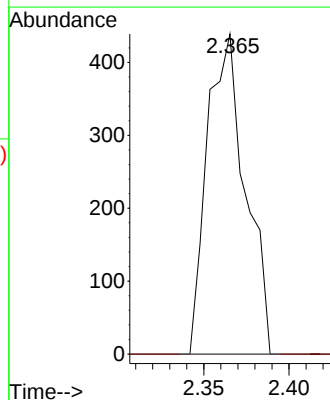
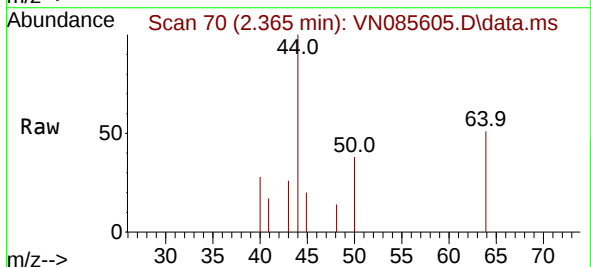
Instrument :  
MSVOA\_N  
ClientSampleId :

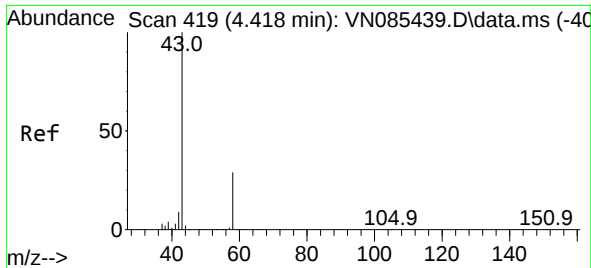
Tgt Ion:168 Resp: 158688  
Ion Ratio Lower Upper  
168 100  
99 64.7 53.6 80.4



#3  
Chloromethane  
Concen: 0.294 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN085605.D  
Acq: 31 Jan 2025 16:28

Tgt Ion: 50 Resp: 684  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.0 40.6#





#16

Acetone

Concen: 47.319 ug/l

RT: 4.430 min Scan# 419

Delta R.T. 0.012 min

Lab File: VN085605.D

Acq: 31 Jan 2025 16:28

Instrument :

MSVOA\_N

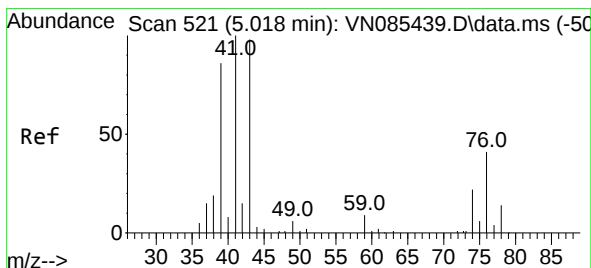
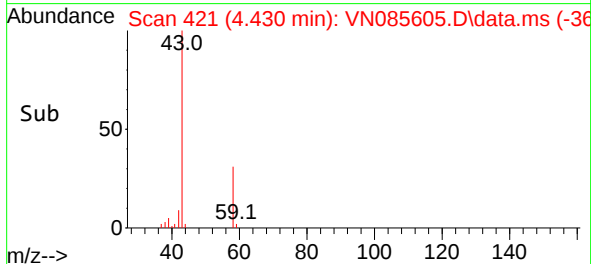
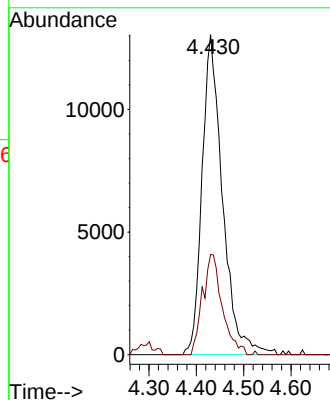
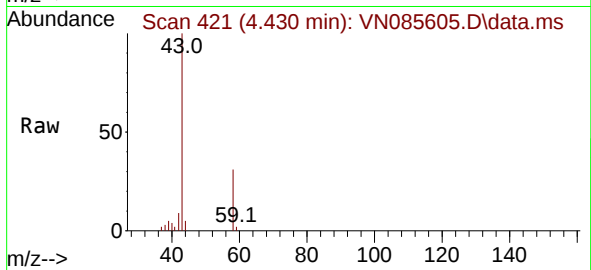
ClientSampleId :

Tgt Ion: 43 Resp: 39164

Ion Ratio Lower Upper

43 100

58 31.4 23.8 35.6



#18

Methyl Acetate

Concen: 1.350 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085605.D

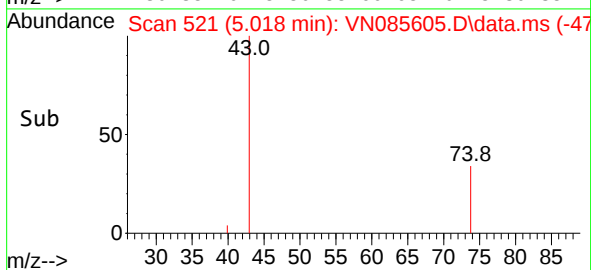
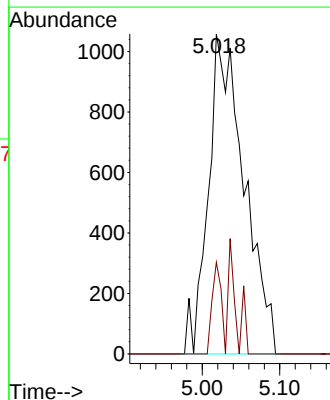
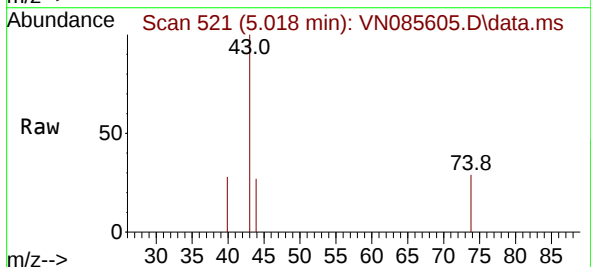
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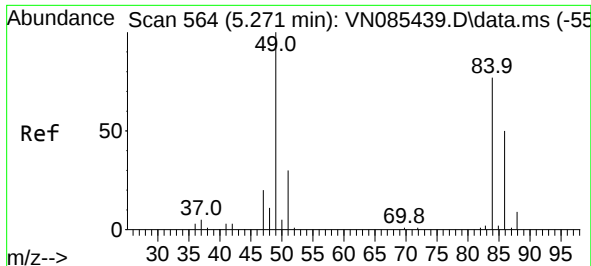
Tgt Ion: 43 Resp: 3398

Ion Ratio Lower Upper

43 100

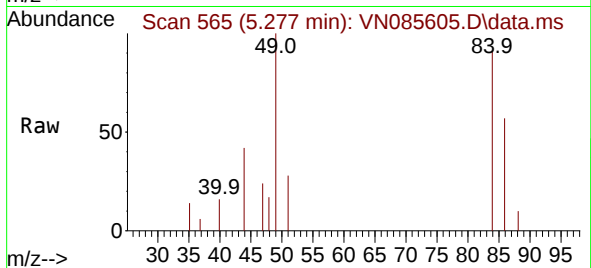
74 7.2 18.6 28.0#



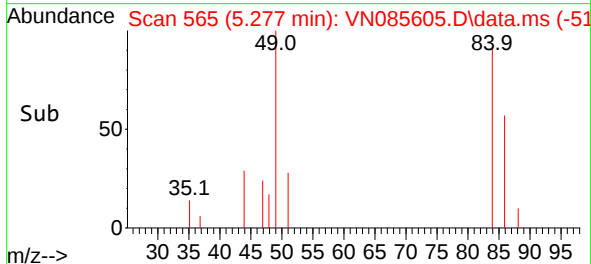
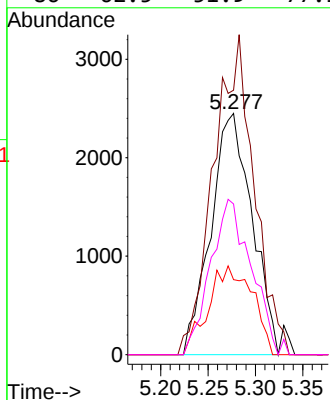


#20  
Methylene Chloride  
Concen: 3.615 ug/l  
RT: 5.277 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN085605.D  
Acq: 31 Jan 2025 16:28

Instrument :  
MSVOA\_N  
ClientSampleId :

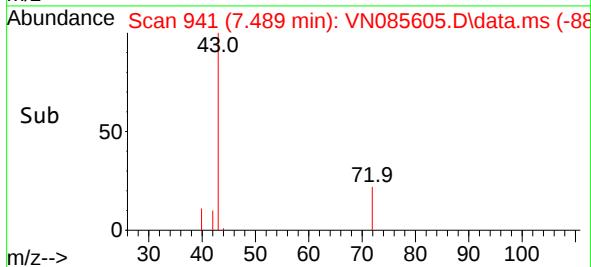
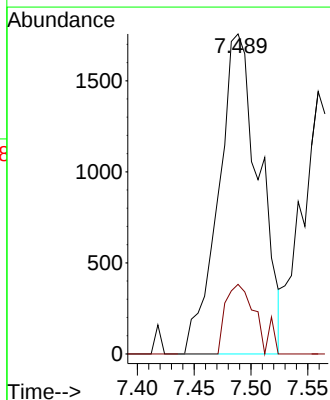
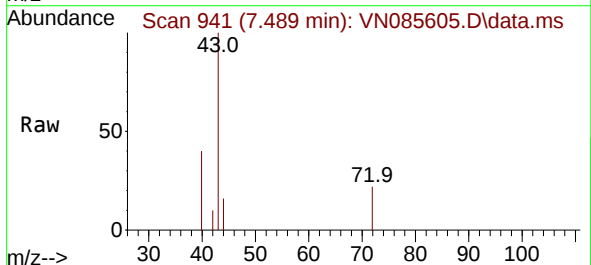


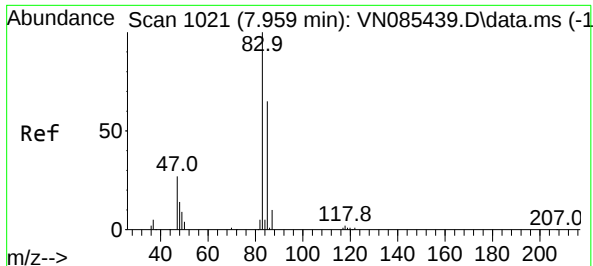
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 7407  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 109.6 | 104.1 | 156.1 |
| 51       | 31.1  | 31.0  | 46.4  |
| 86       | 62.5  | 51.9  | 77.9  |



#25  
2-Butanone  
Concen: 3.601 ug/l  
RT: 7.489 min Scan# 941  
Delta R.T. 0.012 min  
Lab File: VN085605.D  
Acq: 31 Jan 2025 16:28

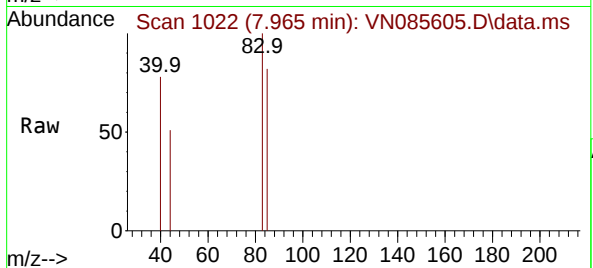
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4386  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 21.7  | 20.2  | 30.4  |



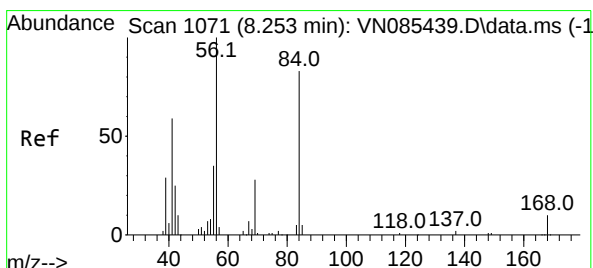
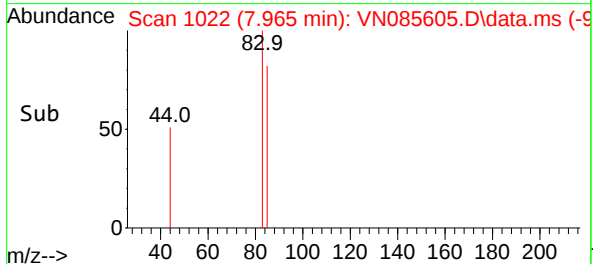
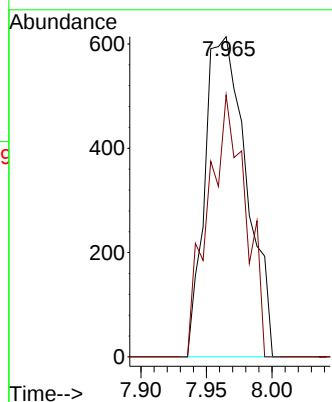


#30  
Chloroform  
Concen: 0.351 ug/l  
RT: 7.965 min Scan# 1065  
Delta R.T. 0.006 min  
Lab File: VN085605.D  
Acq: 31 Jan 2025 16:28

Instrument :  
MSVOA\_N  
ClientSampleId :

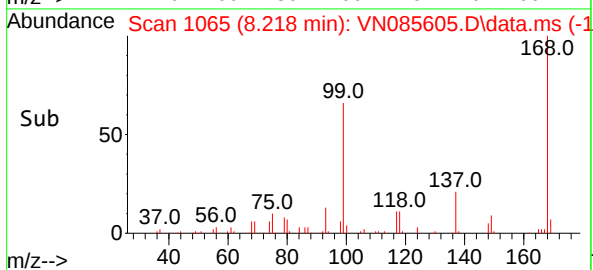
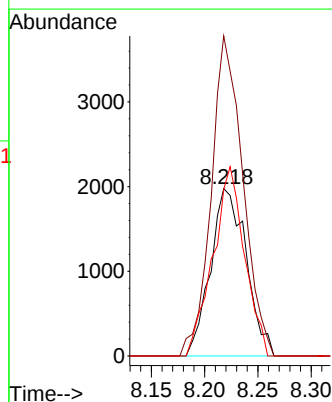
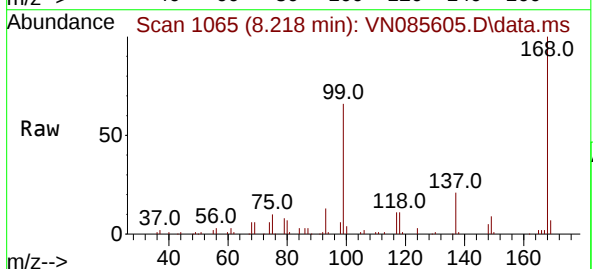


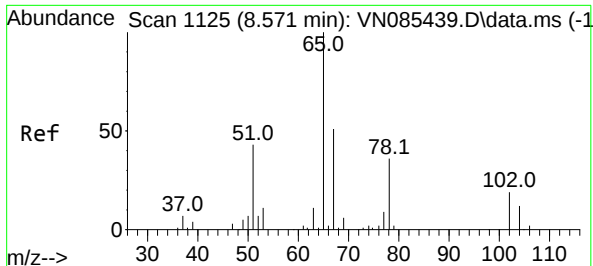
Tgt Ion: 83 Resp: 1357  
Ion Ratio Lower Upper  
83 100  
85 81.8 51.8 77.6#



#31  
Cyclohexane  
Concen: 1.415 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.035 min  
Lab File: VN085605.D  
Acq: 31 Jan 2025 16:28

Tgt Ion: 56 Resp: 4601  
Ion Ratio Lower Upper  
56 100  
69 191.1 22.2 33.4#  
84 99.4 66.4 99.6





#33

1,2-Dichloroethane-d4

Concen: 59.714 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085605.D

Acq: 31 Jan 2025 16:28

Instrument :

MSVOA\_N

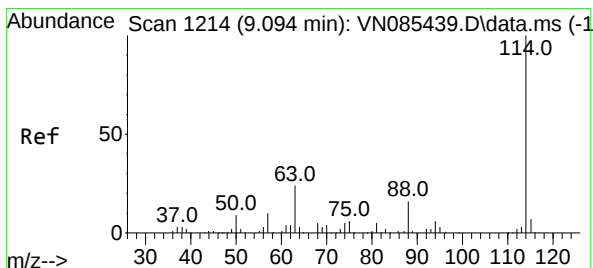
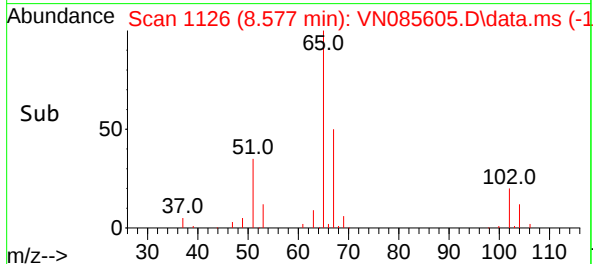
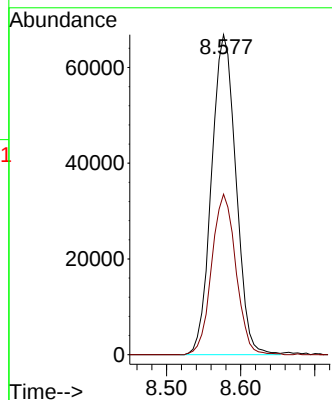
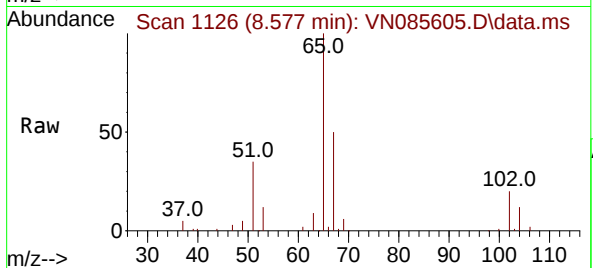
ClientSampleId :

Tgt Ion: 65 Resp: 152961

Ion Ratio Lower Upper

65 100

67 49.8 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085605.D

Acq: 31 Jan 2025 16:28

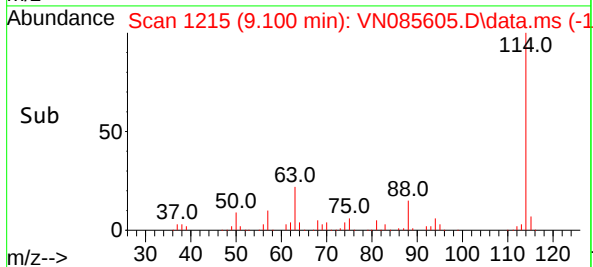
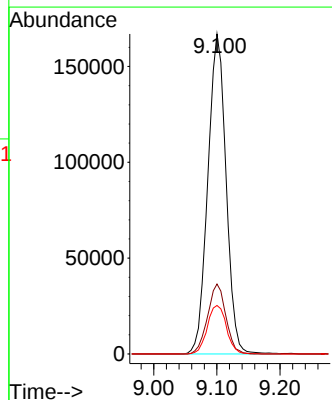
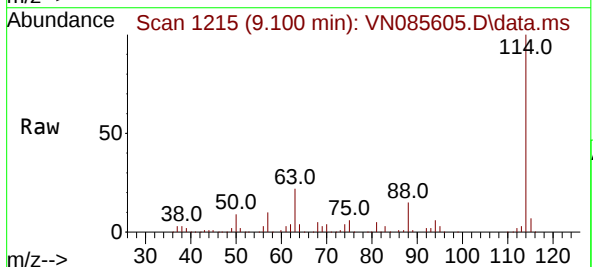
Tgt Ion: 114 Resp: 334726

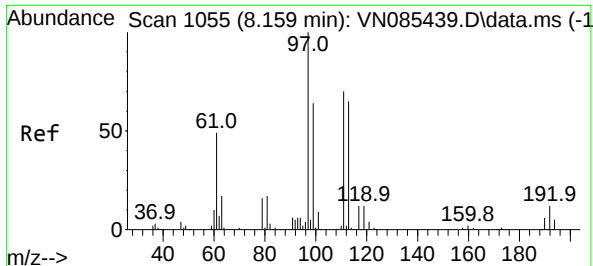
Ion Ratio Lower Upper

114 100

63 21.8 0.0 47.6

88 15.1 0.0 32.6





#35

Dibromofluoromethane

Concen: 49.521 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

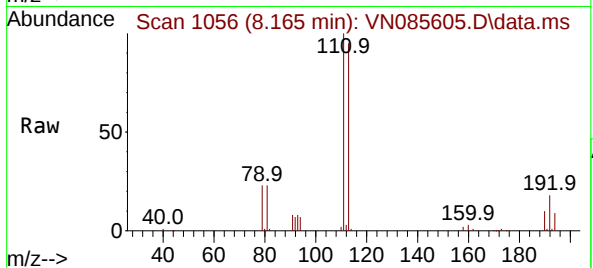
Lab File: VN085605.D

Acq: 31 Jan 2025 16:28

Instrument :

MSVOA\_N

ClientSampleId :



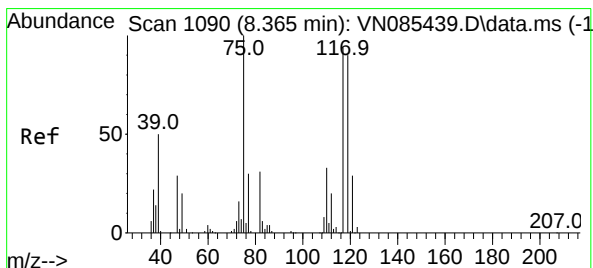
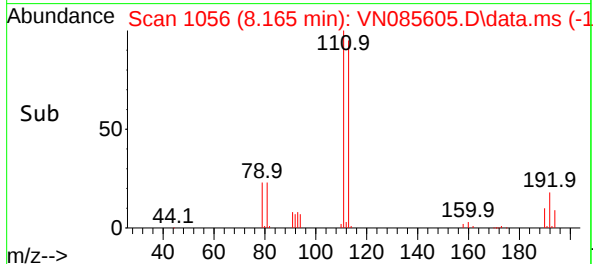
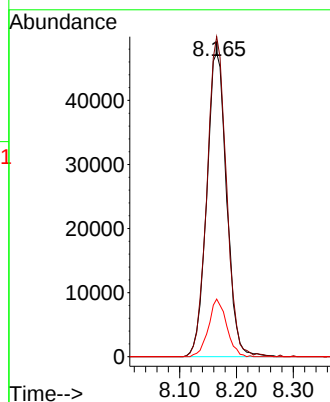
Tgt Ion:113 Resp: 114997

Ion Ratio Lower Upper

113 100

111 103.0 82.7 124.1

192 17.3 14.3 21.5



#36

1,1-Dichloropropene

Concen: 4.683 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN085605.D

Acq: 31 Jan 2025 16:28

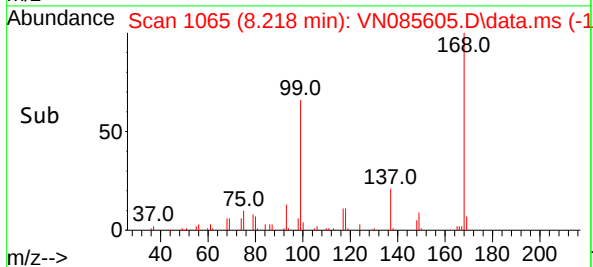
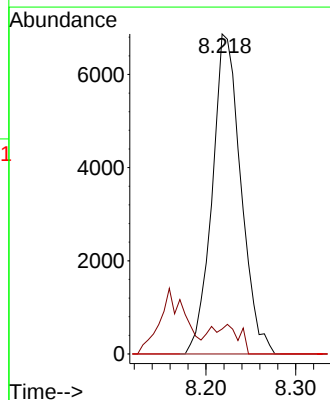
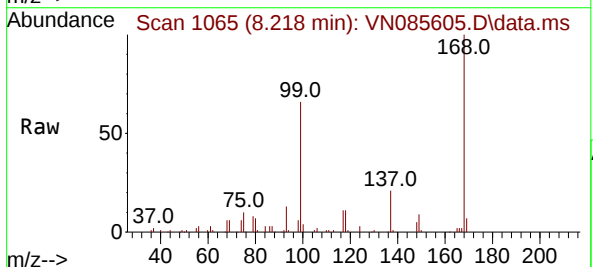
Tgt Ion: 75 Resp: 15263

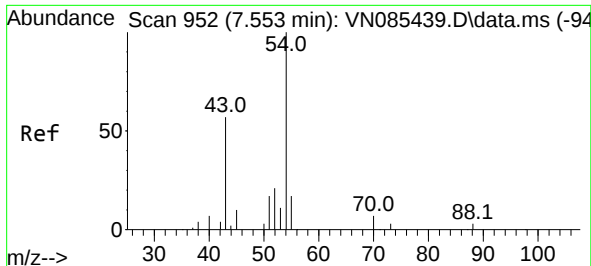
Ion Ratio Lower Upper

75 100

110 9.3 16.5 49.5#

77 0.0 24.4 36.6#

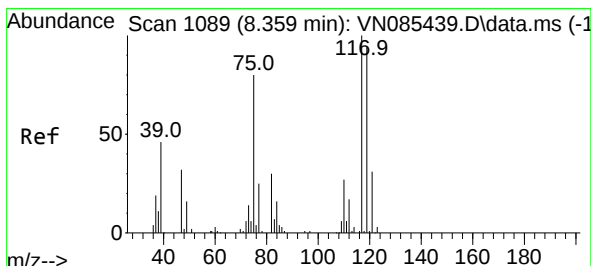
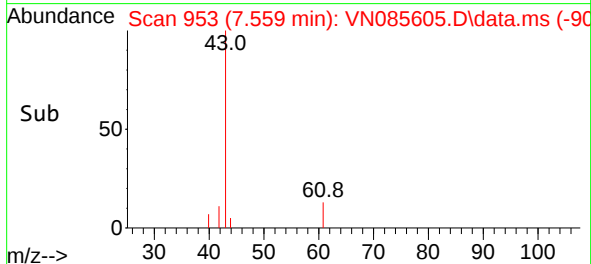
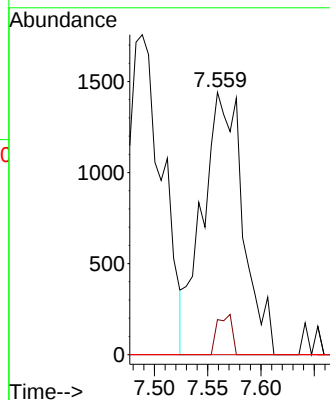
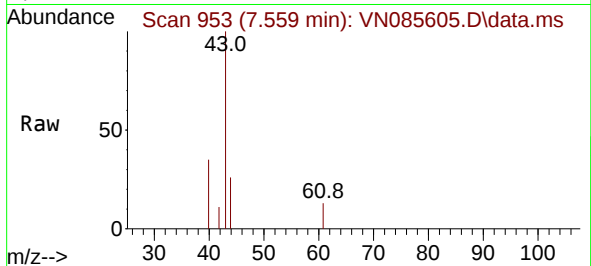




#37  
Ethyl Acetate  
Concen: 1.159 ug/l  
RT: 7.559 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN085605.D  
Acq: 31 Jan 2025 16:28

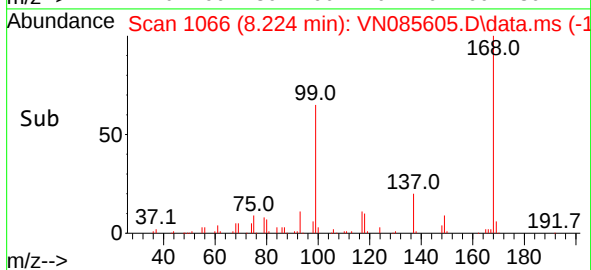
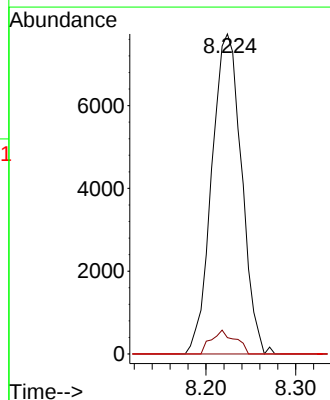
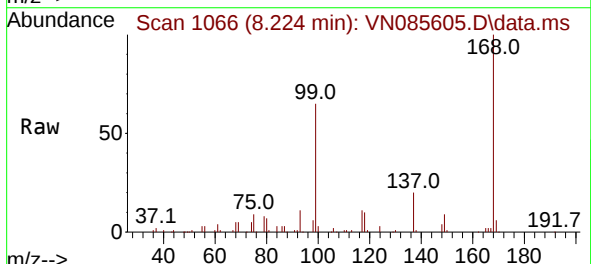
Instrument :  
MSVOA\_N  
ClientSampleId :

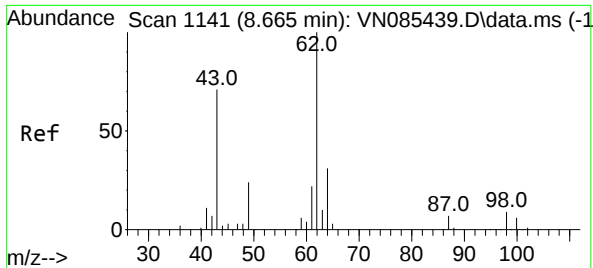
Tgt Ion: 43 Resp: 3814  
Ion Ratio Lower Upper  
43 100  
61 5.5 10.9 16.3#  
70 0.0 7.5 11.3#



#38  
Carbon Tetrachloride  
Concen: 4.773 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.135 min  
Lab File: VN085605.D  
Acq: 31 Jan 2025 16:28

Tgt Ion: 117 Resp: 17810  
Ion Ratio Lower Upper  
117 100  
119 5.1 75.4 113.2#  
121 0.0 24.6 37.0#





#42

1,2-Dichloroethane

Concen: 0.294 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.018 min

Lab File: VN085605.D

Acq: 31 Jan 2025 16:28

Instrument :

MSVOA\_N

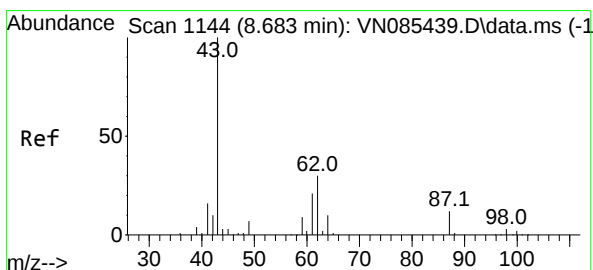
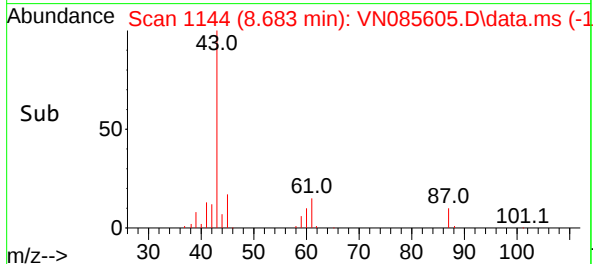
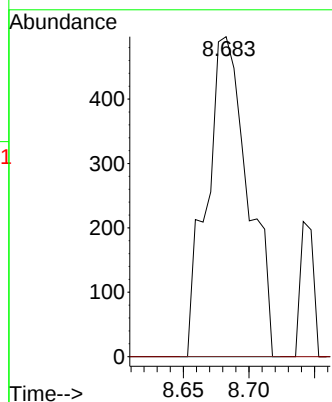
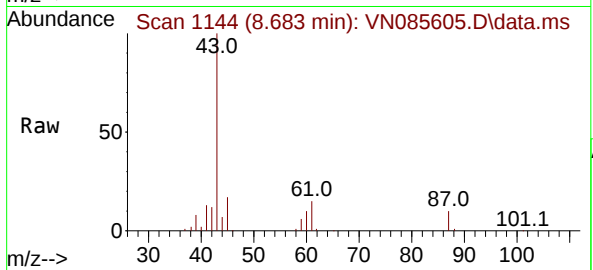
ClientSampleId :

Tgt Ion: 62 Resp: 1083

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.0



#43

Isopropyl Acetate

Concen: 43.233 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN085605.D

Acq: 31 Jan 2025 16:28

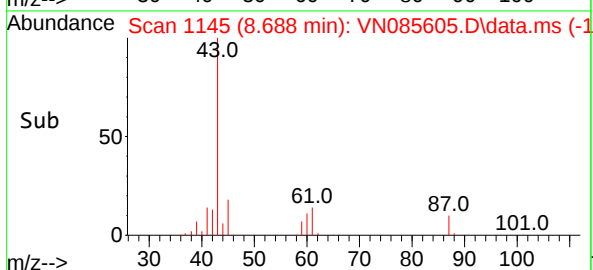
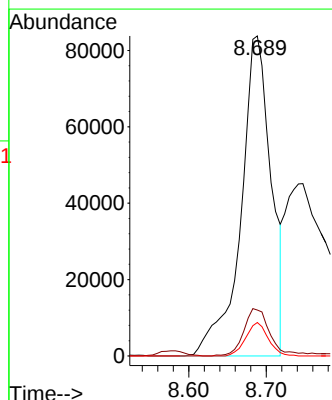
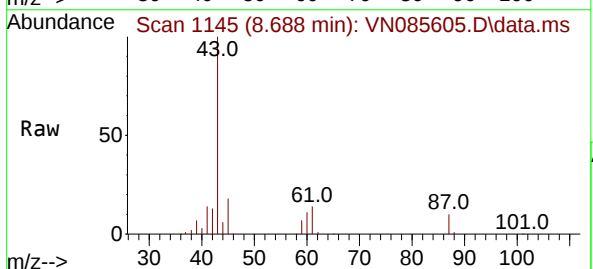
Tgt Ion: 43 Resp: 227884

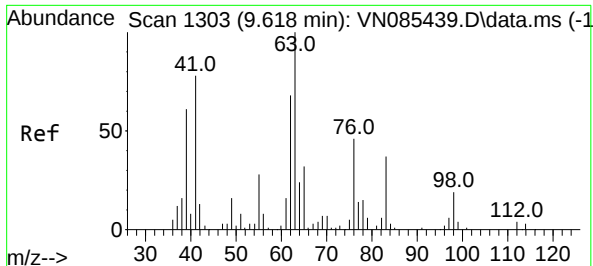
Ion Ratio Lower Upper

43 100

61 13.5 20.7 31.1#

87 7.7 9.8 14.8#





#45

1,2-Dichloropropane

Concen: 0.697 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN085605.D

Acq: 31 Jan 2025 16:28

Instrument :

MSVOA\_N

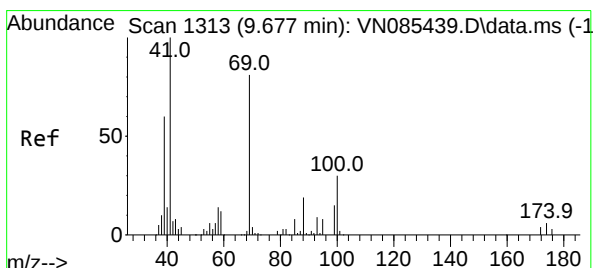
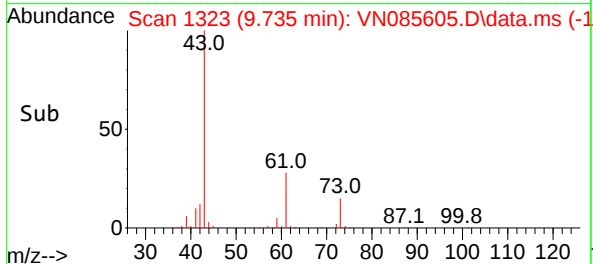
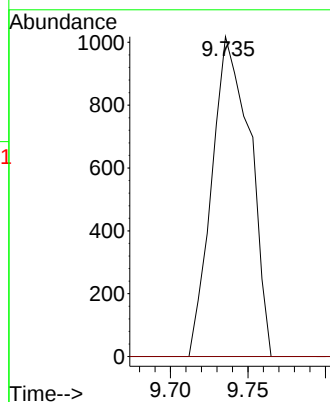
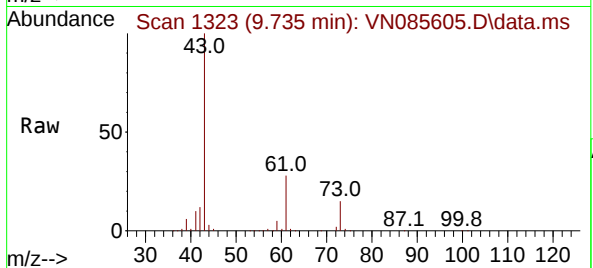
ClientSampleId :

Tgt Ion: 63 Resp: 1743

Ion Ratio Lower Upper

63 100

65 0.0 25.6 38.4#



#48

Methyl methacrylate

Concen: 1.948 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.012 min

Lab File: VN085605.D

Acq: 31 Jan 2025 16:28

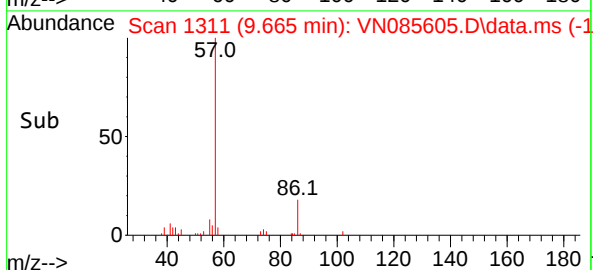
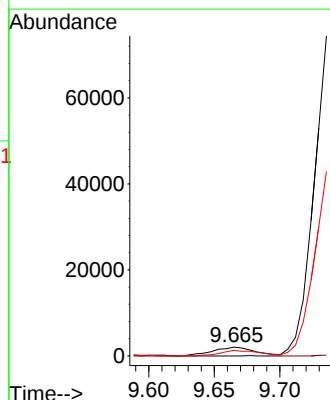
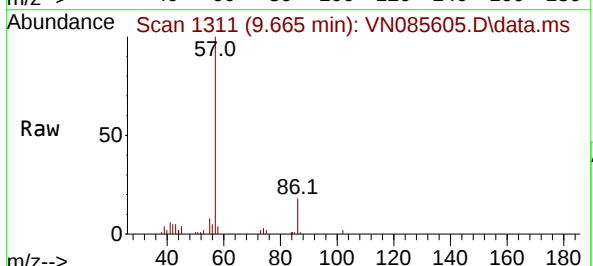
Tgt Ion: 41 Resp: 4620

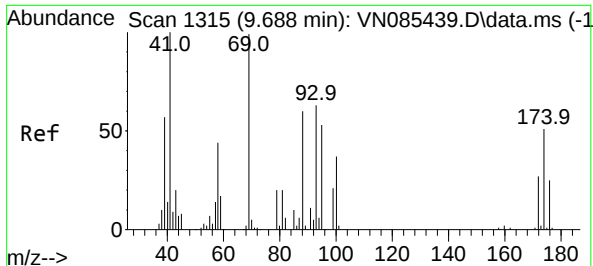
Ion Ratio Lower Upper

41 100

69 1.2 64.7 97.1#

39 57.6 49.0 73.6





#49

1,4-Dioxane

Concen: 1.852 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.053 min

Lab File: VN085605.D

Acq: 31 Jan 2025 16:28

Instrument :

MSVOA\_N

ClientSampleId :

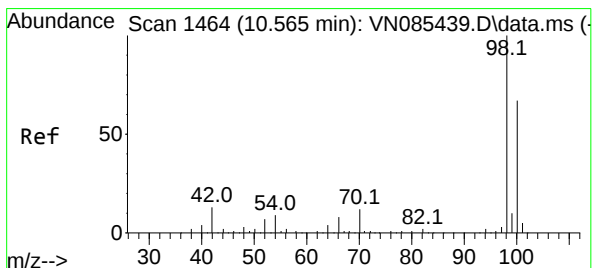
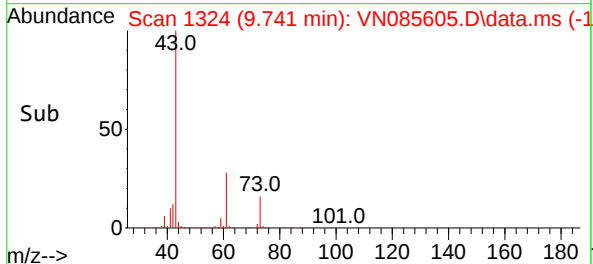
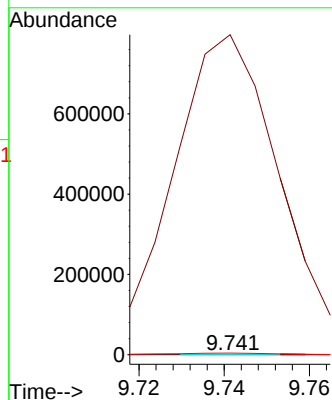
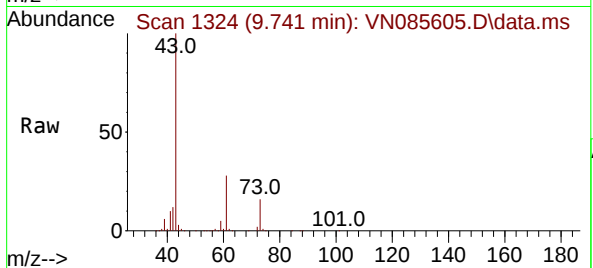
Tgt Ion: 88 Resp: 74

Ion Ratio Lower Upper

88 100

43 1920089.2 26.6 39.8#

58 10305.4 59.5 89.3#



#50

Toluene-d8

Concen: 51.573 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085605.D

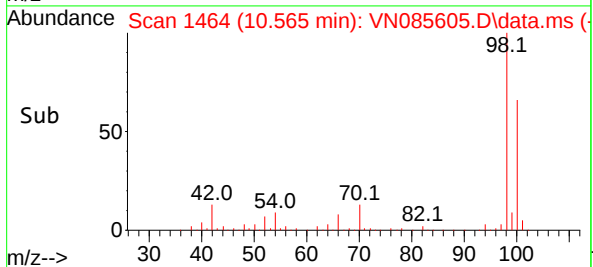
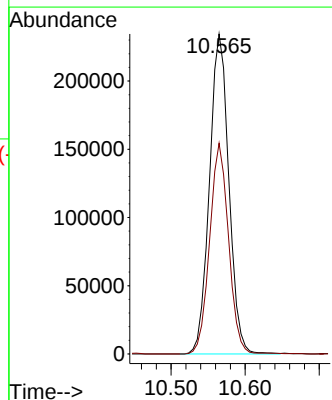
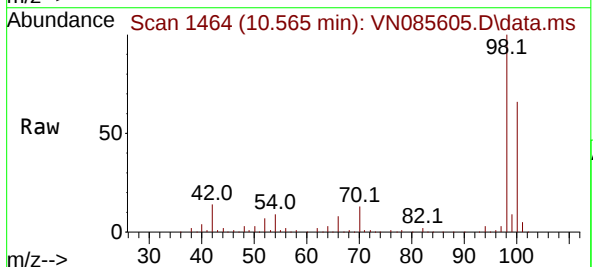
Acq: 31 Jan 2025 16:28

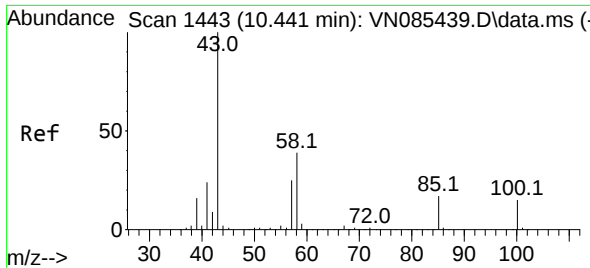
Tgt Ion: 98 Resp: 425511

Ion Ratio Lower Upper

98 100

100 64.2 52.2 78.4

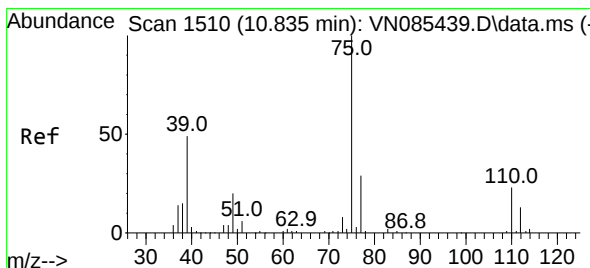
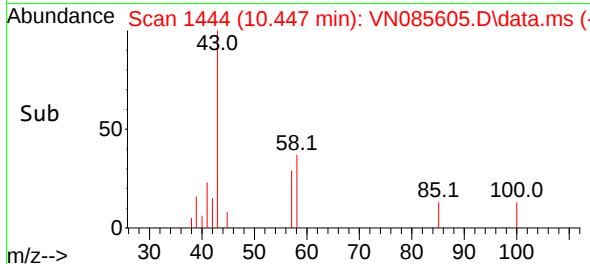
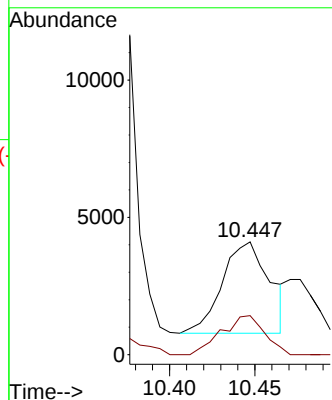
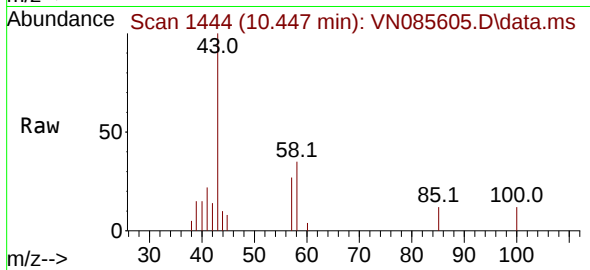




#51  
4-Methyl-2-Pentanone  
Concen: 2.098 ug/l  
RT: 10.447 min Scan# 1443  
Delta R.T. 0.006 min  
Lab File: VN085605.D  
Acq: 31 Jan 2025 16:28

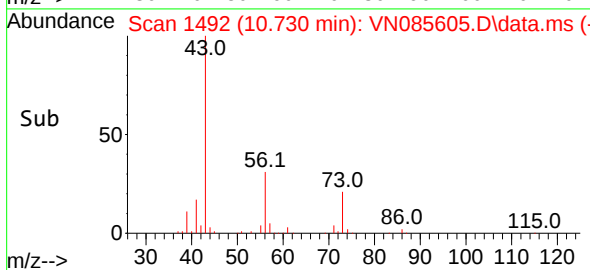
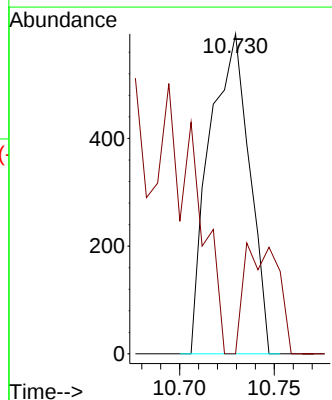
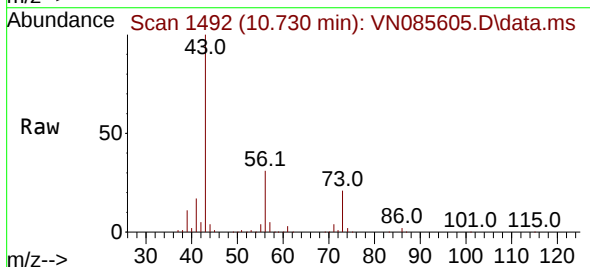
Instrument :  
MSVOA\_N  
ClientSampleId :

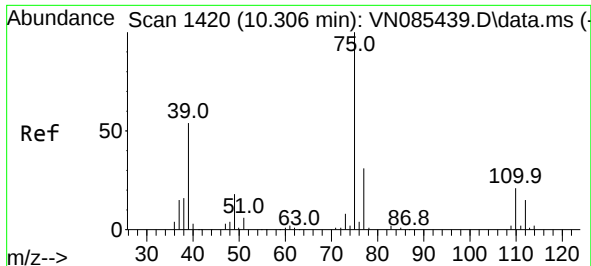
Tgt Ion: 43 Resp: 6418  
Ion Ratio Lower Upper  
43 100  
58 38.9 30.5 45.7



#53  
t-1,3-Dichloropropene  
Concen: 0.251 ug/l  
RT: 10.730 min Scan# 1492  
Delta R.T. -0.106 min  
Lab File: VN085605.D  
Acq: 31 Jan 2025 16:28

Tgt Ion: 75 Resp: 871  
Ion Ratio Lower Upper  
75 100  
77 0.0 23.5 35.3#

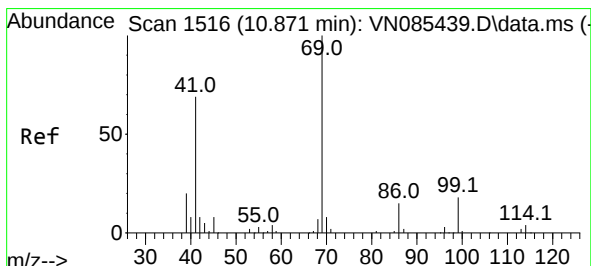
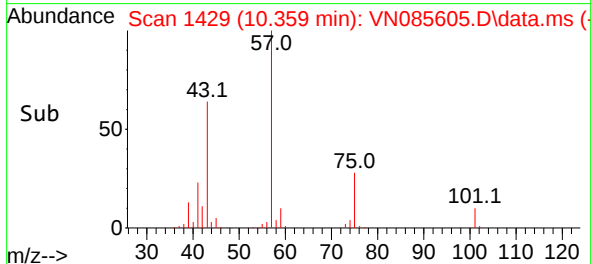
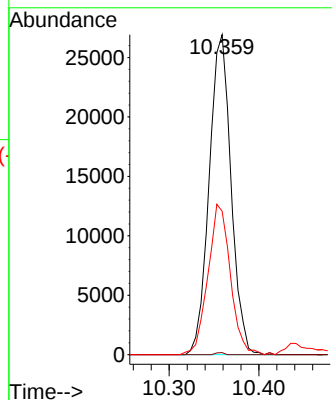
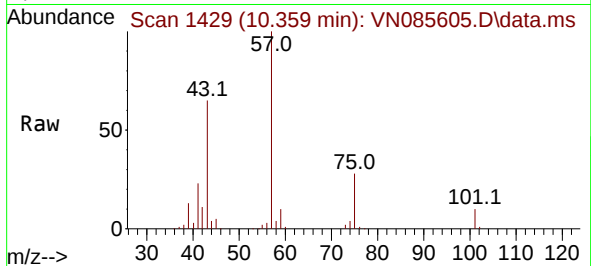




#54  
 cis-1,3-Dichloropropene  
 Concen: 12.287 ug/l  
 RT: 10.359 min Scan# 1429  
 Delta R.T. 0.053 min  
 Lab File: VN085605.D  
 Acq: 31 Jan 2025 16:28

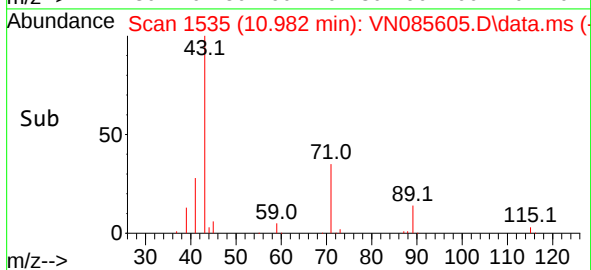
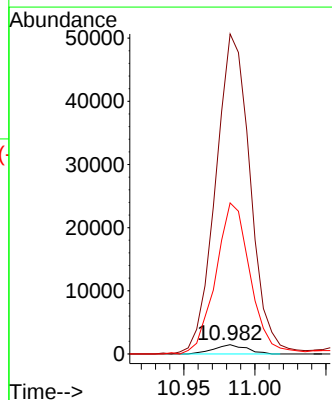
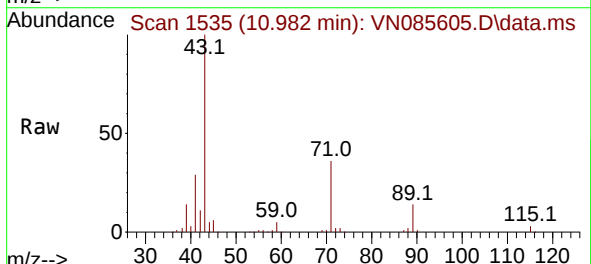
Instrument :  
 MSVOA\_N  
 ClientSampleId :

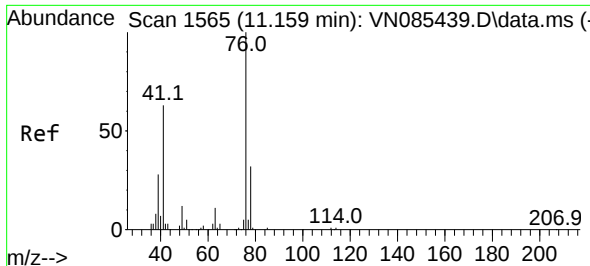
Tgt Ion: 75 Resp: 45606  
 Ion Ratio Lower Upper  
 75 100  
 77 0.6 25.0 37.4#  
 39 44.9 43.1 64.7



#56  
 Ethyl methacrylate  
 Concen: 2.523 ug/l  
 RT: 10.982 min Scan# 1535  
 Delta R.T. 0.111 min  
 Lab File: VN085605.D  
 Acq: 31 Jan 2025 16:28

Tgt Ion: 69 Resp: 2330  
 Ion Ratio Lower Upper  
 69 100  
 41 3693.0 54.6 82.0#  
 39 1742.2 32.4 48.6#





#57

1,3-Dichloropropane

Concen: 1.753 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN085605.D

Acq: 31 Jan 2025 16:28

Instrument :

MSVOA\_N

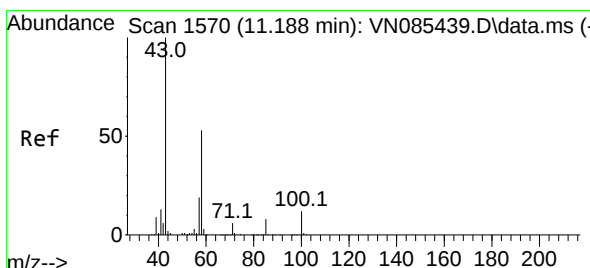
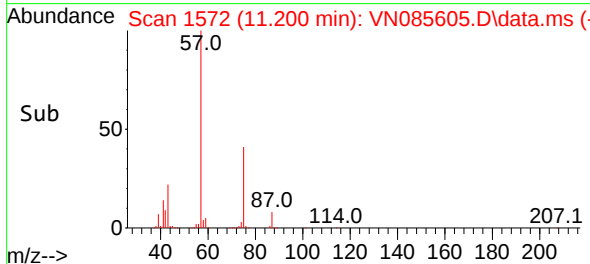
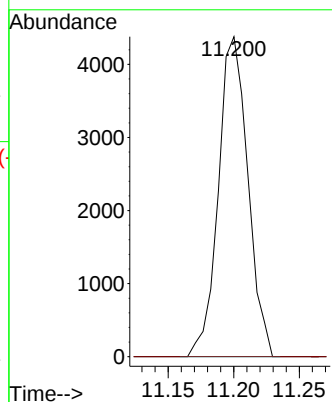
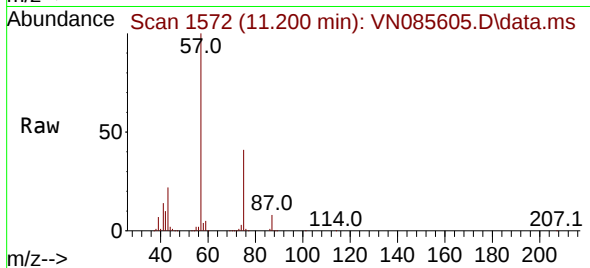
ClientSampleId :

Tgt Ion: 76 Resp: 6845

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 40.492 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.012 min

Lab File: VN085605.D

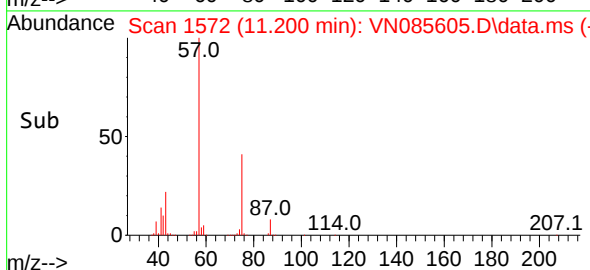
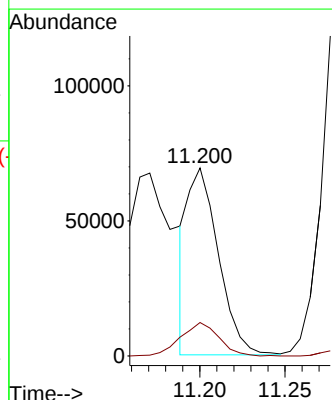
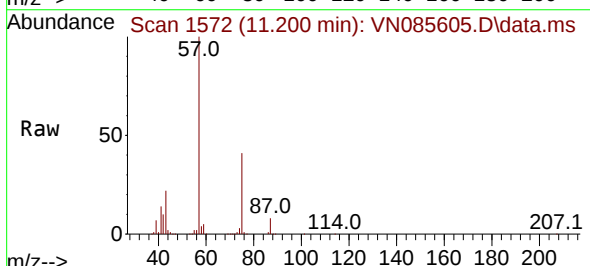
Acq: 31 Jan 2025 16:28

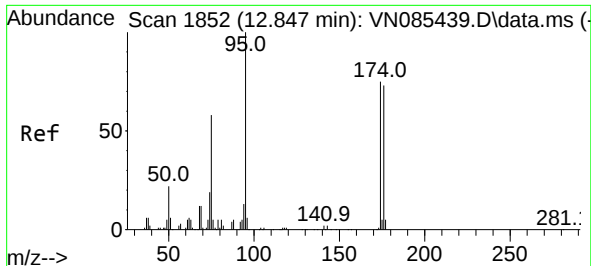
Tgt Ion: 43 Resp: 87149

Ion Ratio Lower Upper

43 100

58 22.3 26.2 78.6#

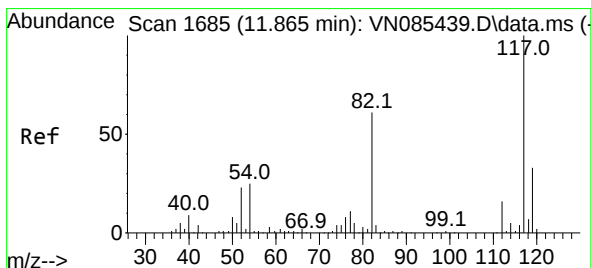
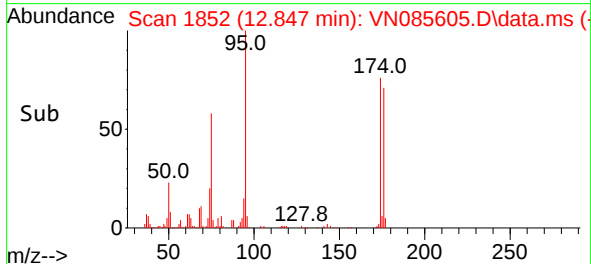
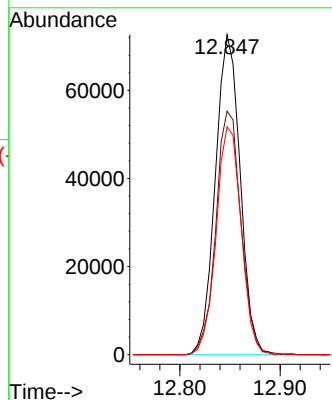
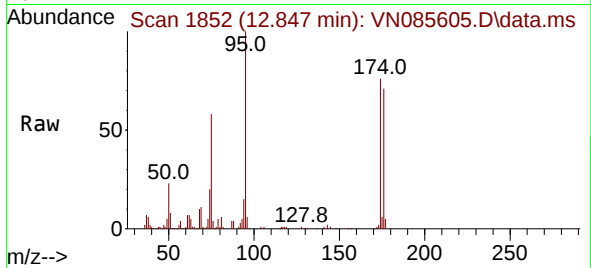




#62  
4-Bromofluorobenzene  
Concen: 44.215 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN085605.D  
Acq: 31 Jan 2025 16:28

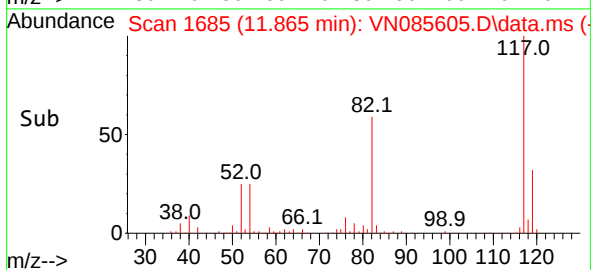
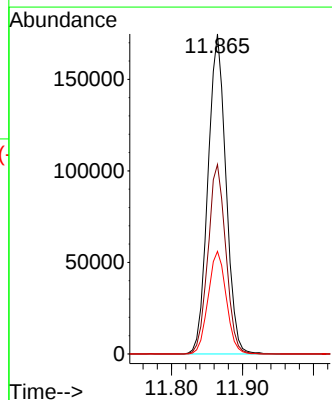
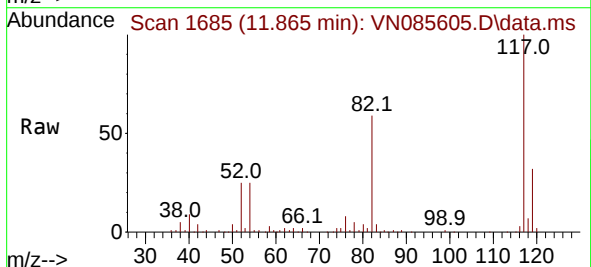
Instrument :  
MSVOA\_N  
ClientSampleId :

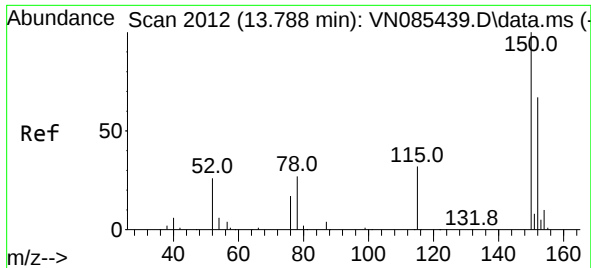
Tgt Ion: 95 Resp: 124789  
Ion Ratio Lower Upper  
95 100  
174 77.2 0.0 145.0  
176 71.8 0.0 142.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. 0.000 min  
Lab File: VN085605.D  
Acq: 31 Jan 2025 16:28

Tgt Ion: 117 Resp: 307168  
Ion Ratio Lower Upper  
117 100  
82 59.2 48.6 72.8  
119 32.0 26.6 39.8

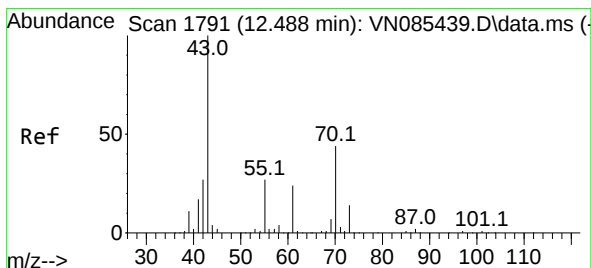
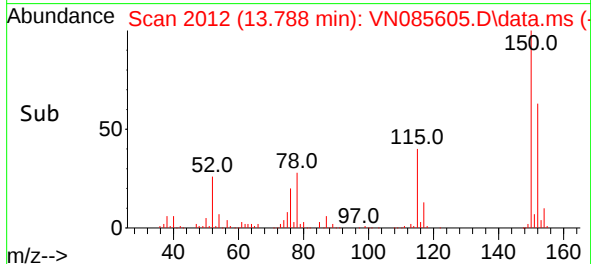
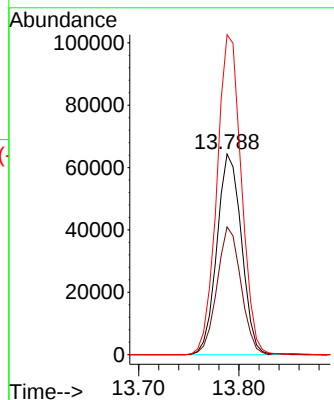
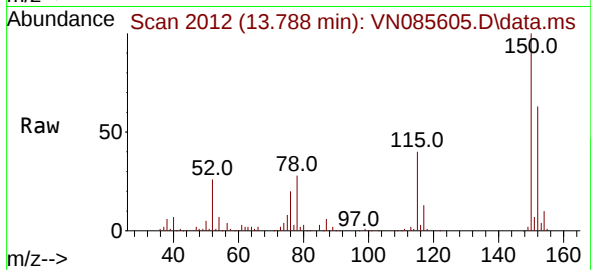




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.788 min Scan# 20  
 Delta R.T. 0.000 min  
 Lab File: VN085605.D  
 Acq: 31 Jan 2025 16:28

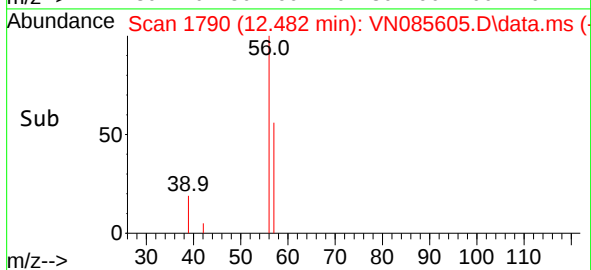
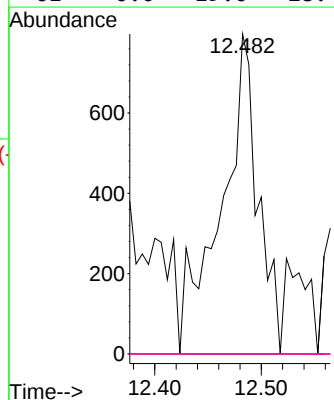
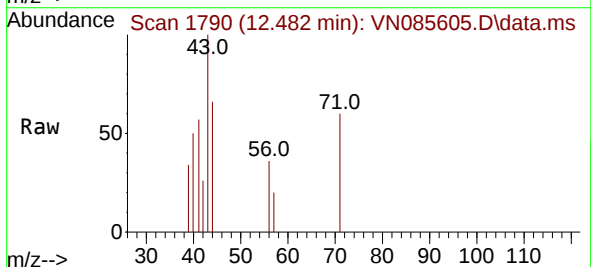
Instrument :  
 MSVOA\_N  
 ClientSampleId :

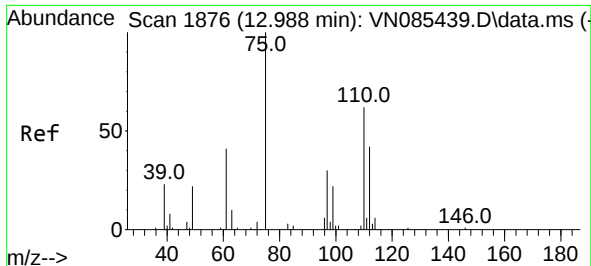
Tgt Ion:152 Resp: 109447  
 Ion Ratio Lower Upper  
 152 100  
 115 62.3 31.1 93.3  
 150 158.7 0.0 343.6



#74  
 N-ethyl acetate  
 Concen: 0.575 ug/l  
 RT: 12.482 min Scan# 1790  
 Delta R.T. -0.006 min  
 Lab File: VN085605.D  
 Acq: 31 Jan 2025 16:28

Tgt Ion: 43 Resp: 1910  
 Ion Ratio Lower Upper  
 43 100  
 70 0.0 34.0 51.0#  
 55 0.0 21.4 32.2#  
 61 0.0 19.0 28.4#

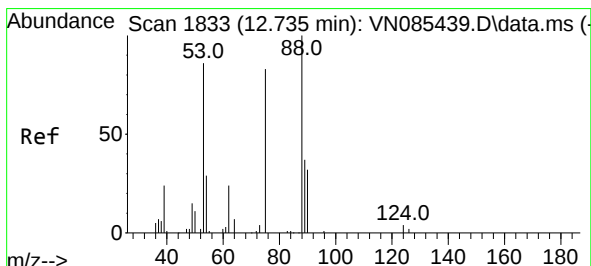
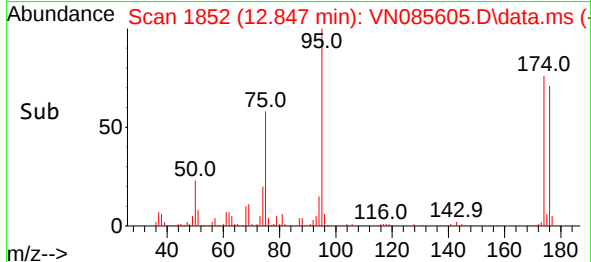
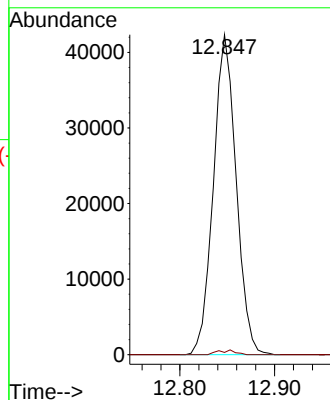
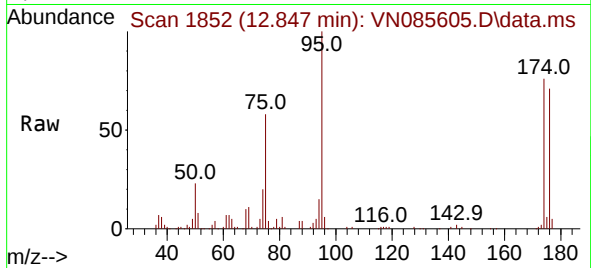




#76  
 1,2,3-Trichloropropane  
 Concen: 31.797 ug/l  
 RT: 12.847 min Scan# 1852  
 Delta R.T. -0.141 min  
 Lab File: VN085605.D  
 Acq: 31 Jan 2025 16:28

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tgt Ion: 75 Resp: 70733  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 109.7 329.2#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 86.028 ug/l  
 RT: 12.847 min Scan# 1852  
 Delta R.T. 0.112 min  
 Lab File: VN085605.D  
 Acq: 31 Jan 2025 16:28

Tgt Ion: 75 Resp: 70733  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 95.6 143.4#  
 89 0.0 37.0 55.6#

