

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN013125\  
 Data File : VN085599.D  
 Acq On : 31 Jan 2025 14:03  
 Operator : JC\MD  
 Sample : PB166357ZHE#04  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jan 31 22:28:18 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

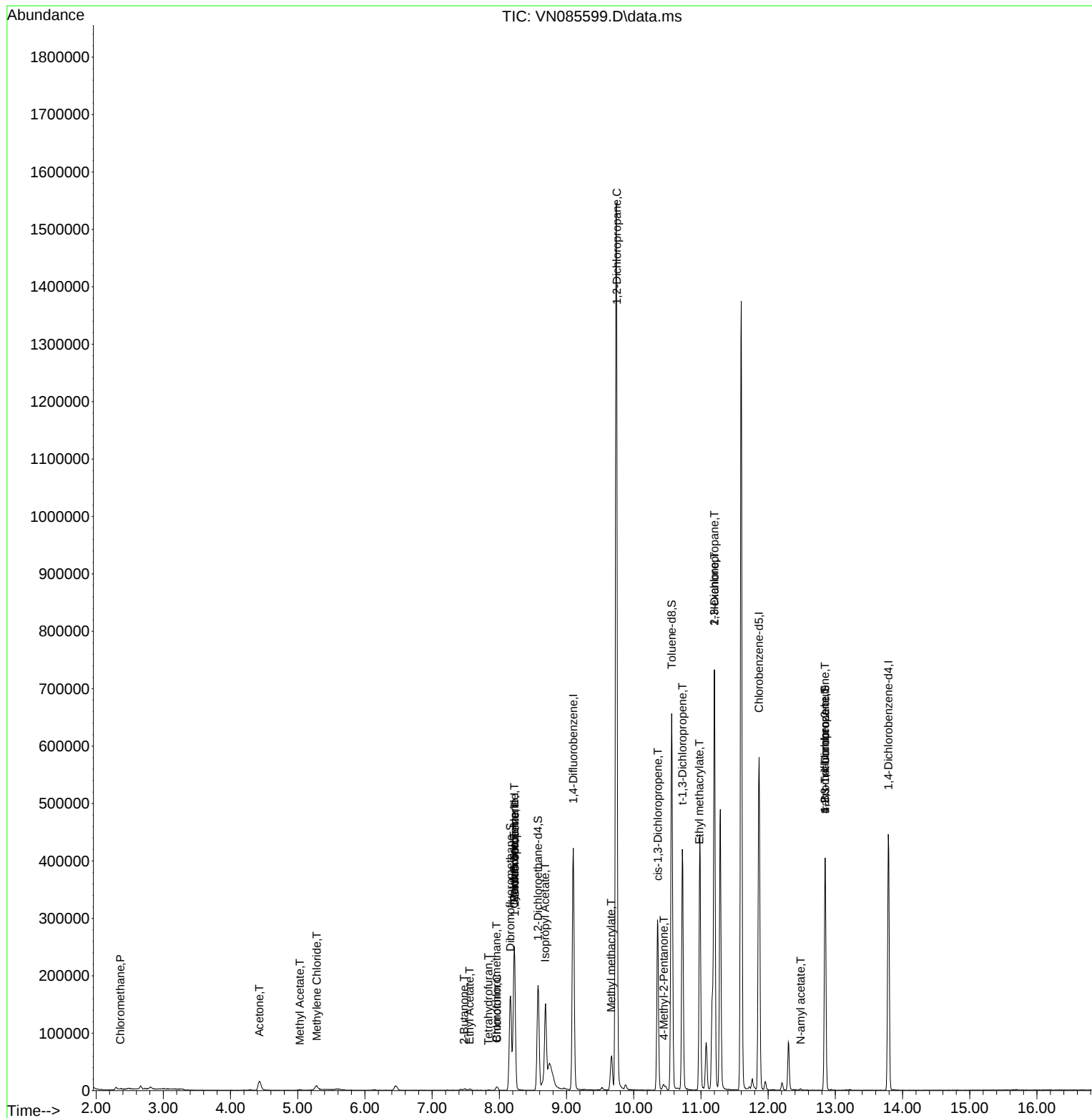
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 168539   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 336774   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 321227   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152   | 117372   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 154856   | 56.920   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 113.840% |          |
| 35) Dibromofluoromethane      | 8.165  | 113   | 116930   | 50.047   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 100.100% |          |
| 50) Toluene-d8                | 10.565 | 98    | 434789   | 52.377   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 104.760% |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 131532   | 46.321   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | = 92.640%  |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 3) Chloromethane              | 2.359  | 50    | 684      | 0.277    | ug/l #     | 41       |
| 16) Acetone                   | 4.430  | 43    | 32865    | 37.387   | ug/l       | 96       |
| 18) Methyl Acetate            | 5.030  | 43    | 2454     | 0.918    | ug/l #     | 64       |
| 20) Methylene Chloride        | 5.283  | 84    | 5285     | 2.429    | ug/l       | 88       |
| 25) 2-Butanone                | 7.477  | 43    | 4727     | 3.654    | ug/l       | 96       |
| 28) Bromochloromethane        | 7.959  | 49    | 396      | 0.214    | ug/l #     | 18       |
| 29) Tetrahydrofuran           | 7.836  | 42    | 372      | 0.454    | ug/l #     | 48       |
| 30) Chloroform                | 7.965  | 83    | 6420     | 1.564    | ug/l       | 86       |
| 31) Cyclohexane               | 8.218  | 56    | 4777     | 1.384    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 8.230  | 75    | 16399    | 5.001    | ug/l #     | 51       |
| 37) Ethyl Acetate             | 7.559  | 43    | 3835     | 1.159    | ug/l #     | 79       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 19298    | 5.141    | ug/l #     | 18       |
| 43) Isopropyl Acetate         | 8.683  | 43    | 177079   | 33.390   | ug/l #     | 84       |
| 45) 1,2-Dichloropropane       | 9.747  | 63    | 1980     | 0.787    | ug/l #     | 43       |
| 48) Methyl methacrylate       | 9.665  | 41    | 4486     | 1.880    | ug/l #     | 49       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43    | 7077     | 2.300    | ug/l       | 92       |
| 53) t-1,3-Dichloropropene     | 10.724 | 75    | 815      | 0.233    | ug/l #     | 45       |
| 54) cis-1,3-Dichloropropene   | 10.359 | 75    | 47932    | 12.835   | ug/l #     | 67       |
| 56) Ethyl methacrylate        | 10.977 | 69    | 2369     | 2.530    | ug/l #     | 1        |
| 57) 1,3-Dichloropropane       | 11.200 | 76    | 7180     | 1.828    | ug/l #     | 43       |
| 59) 2-Hexanone                | 11.200 | 43    | 89338    | 41.257   | ug/l #     | 57       |
| 74) N-amyl acetate            | 12.482 | 43    | 1180     | 0.331    | ug/l #     | 42       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 72804    | 30.518   | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 72804    | 82.568   | ug/l #     | 3        |
| -----                         |        |       |          |          |            |          |

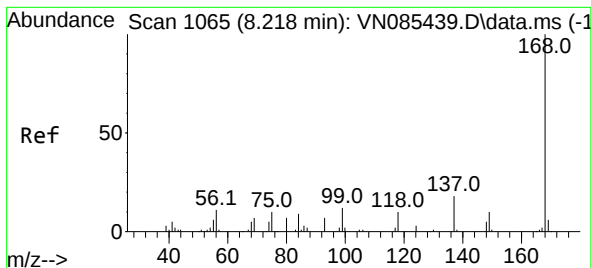
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : PB166357ZHE#04  
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ALS Vial : 12 Sample Multiplier: 1

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Quant Title : SW846 8260  
QLast Update : Wed Jan 15 02:16:08 2025  
Response via : Initial Calibration

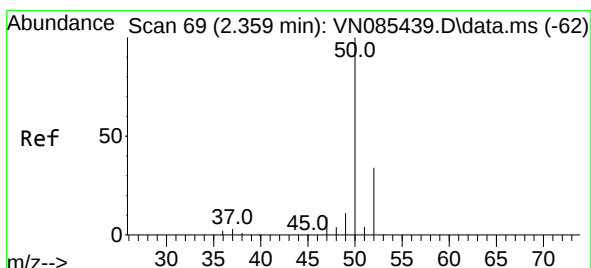
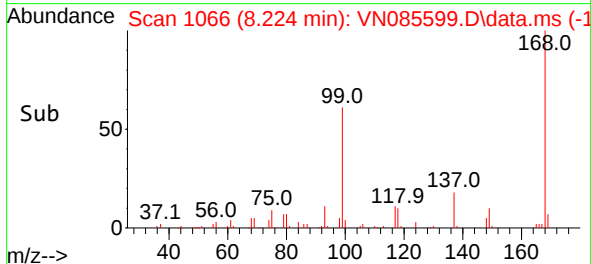
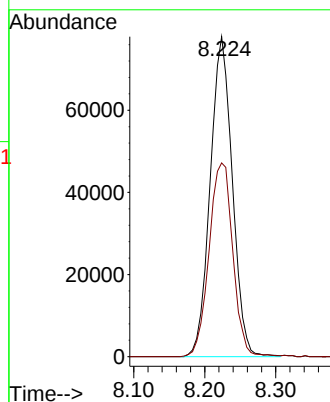
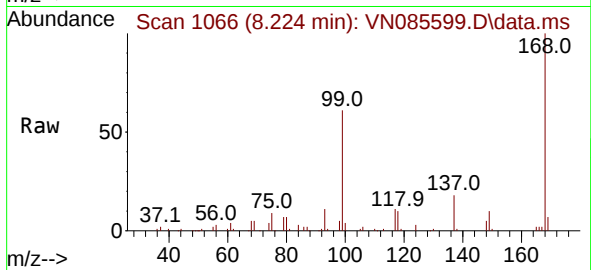




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

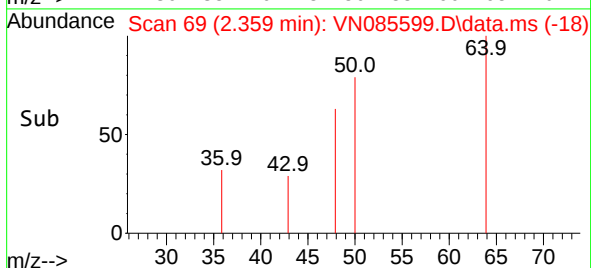
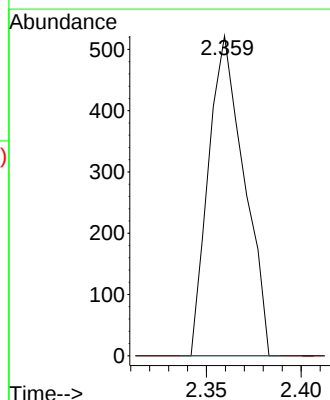
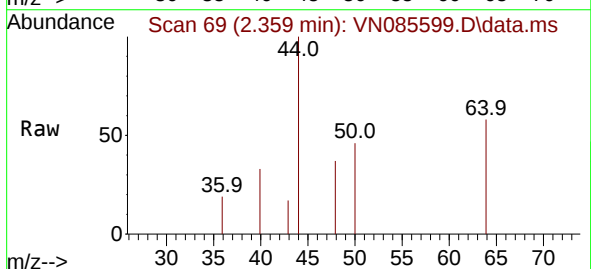
Instrument :  
MSVOA\_N  
ClientSampleId :

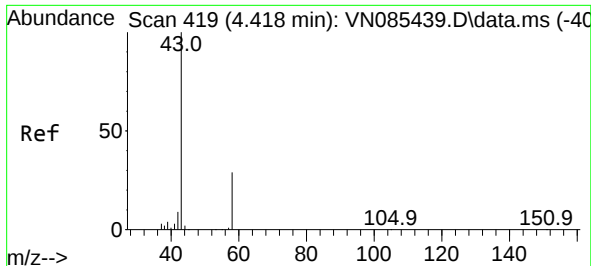
Tgt Ion:168 Resp: 168539  
Ion Ratio Lower Upper  
168 100  
99 60.5 53.6 80.4



#3  
Chloromethane  
Concen: 0.277 ug/l  
RT: 2.359 min Scan# 69  
Delta R.T. 0.000 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

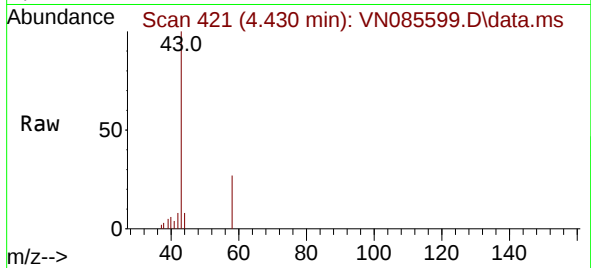
Tgt Ion: 50 Resp: 684  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.0 40.6#



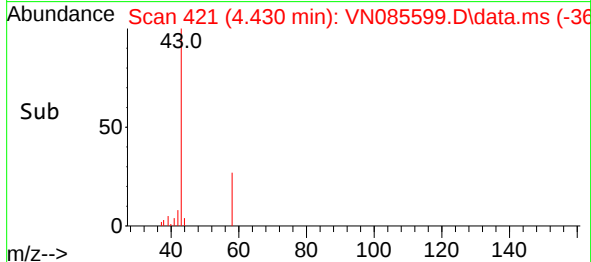
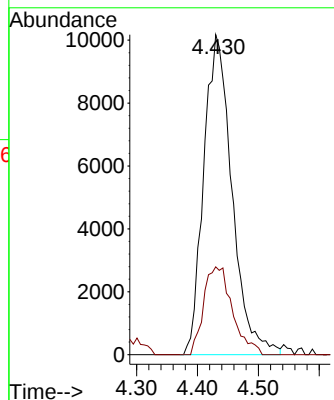


#16  
Acetone  
Concen: 37.387 ug/l  
RT: 4.430 min Scan# 419  
Delta R.T. 0.012 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

Instrument :  
MSVOA\_N  
ClientSampleId :

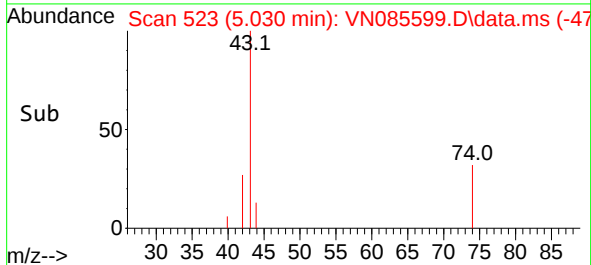
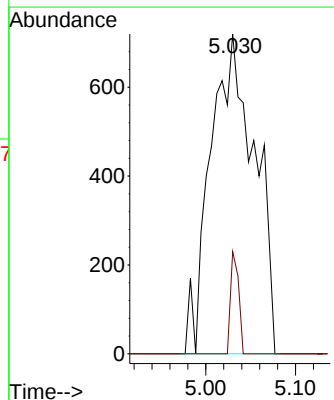
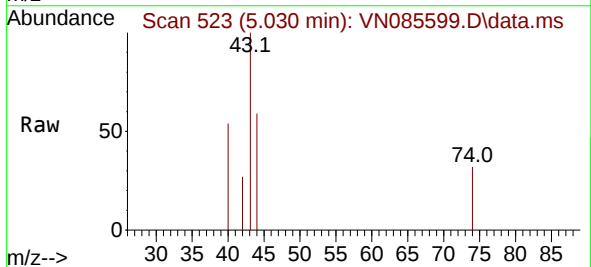


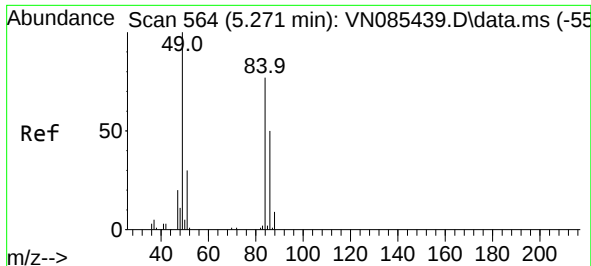
Tgt Ion: 43 Resp: 32865  
Ion Ratio Lower Upper  
43 100  
58 27.4 23.8 35.6



#18  
Methyl Acetate  
Concen: 0.918 ug/l  
RT: 5.030 min Scan# 523  
Delta R.T. 0.012 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

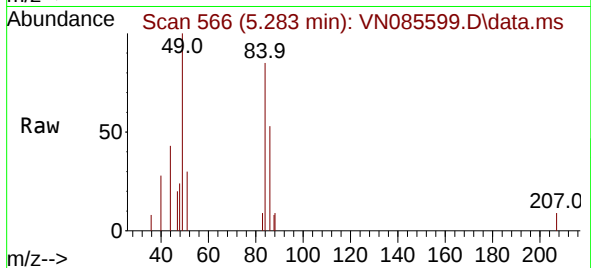
Tgt Ion: 43 Resp: 2454  
Ion Ratio Lower Upper  
43 100  
74 5.8 18.6 28.0#



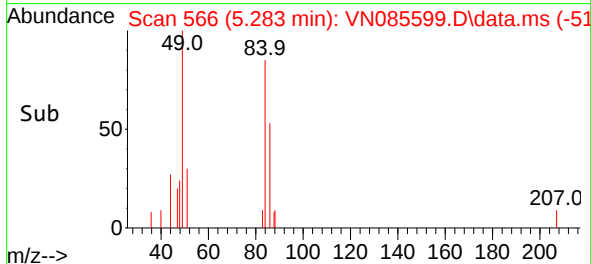
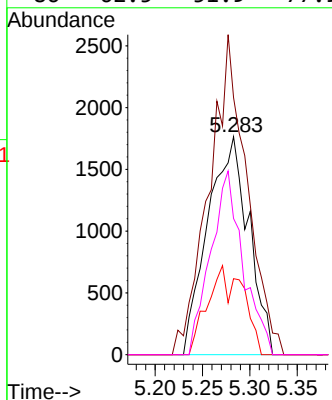


#20  
Methylene Chloride  
Concen: 2.429 ug/l  
RT: 5.283 min Scan# 51  
Delta R.T. 0.012 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

Instrument :  
MSVOA\_N  
ClientSampleId :

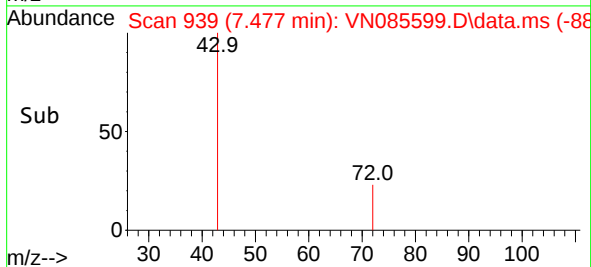
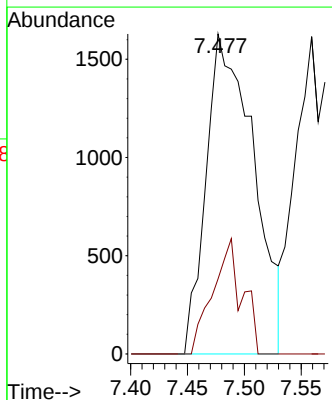
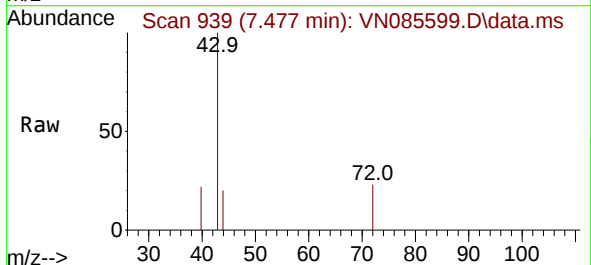


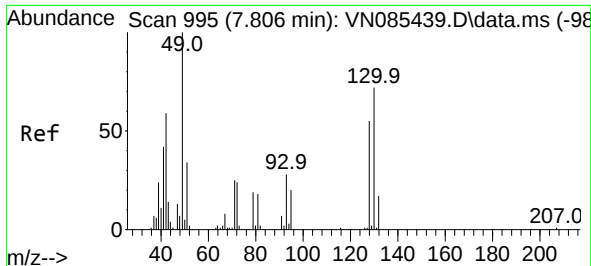
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 5285  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 108.5 | 104.1 | 156.1 |
| 51       | 34.9  | 31.0  | 46.4  |
| 86       | 62.5  | 51.9  | 77.9  |



#25  
2-Butanone  
Concen: 3.654 ug/l  
RT: 7.477 min Scan# 939  
Delta R.T. 0.000 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

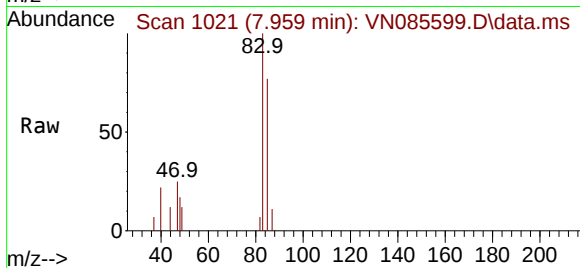
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4727  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 23.4  | 20.2  | 30.4  |



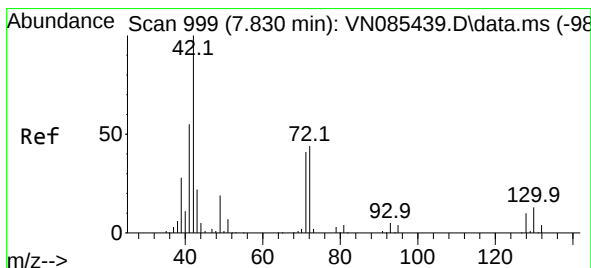
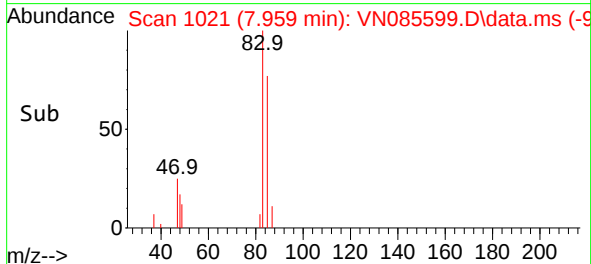
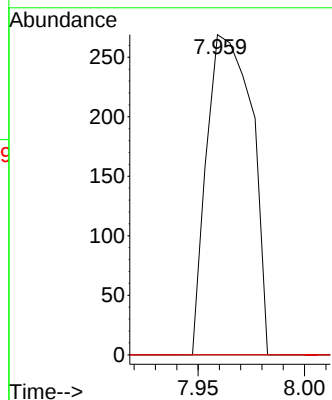


#28  
Bromochloromethane  
Concen: 0.214 ug/l  
RT: 7.959 min Scan# 10  
Delta R.T. 0.153 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

Instrument :  
MSVOA\_N  
ClientSampleId :

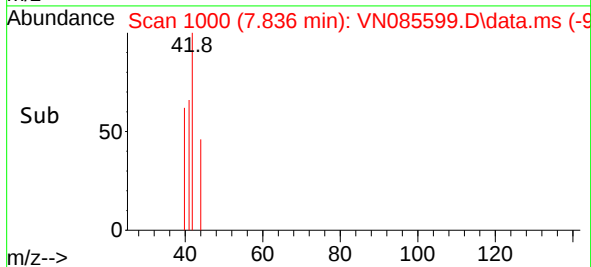
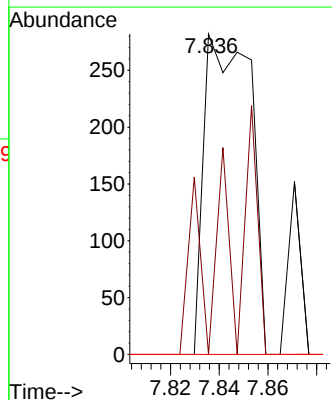
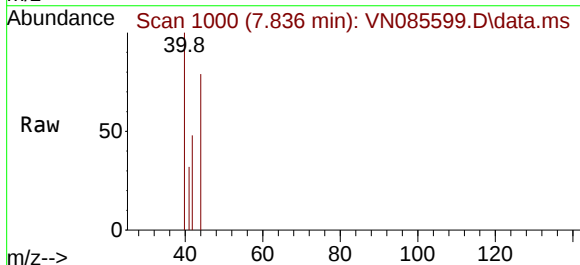


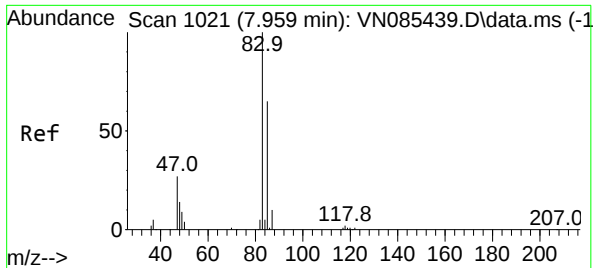
Tgt Ion: 49 Resp: 396  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 4.4  
130 0.0 55.0 82.4#



#29  
Tetrahydrofuran  
Concen: 0.454 ug/l  
RT: 7.836 min Scan# 1000  
Delta R.T. 0.006 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

Tgt Ion: 42 Resp: 372  
Ion Ratio Lower Upper  
42 100  
72 17.2 34.2 51.2#  
71 0.0 32.5 48.7#

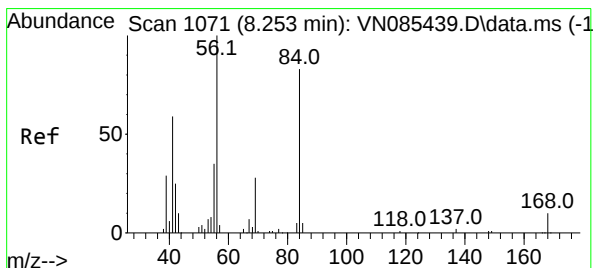
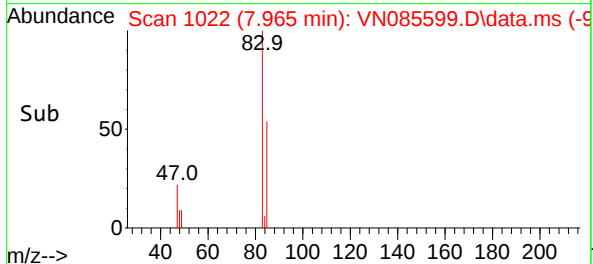
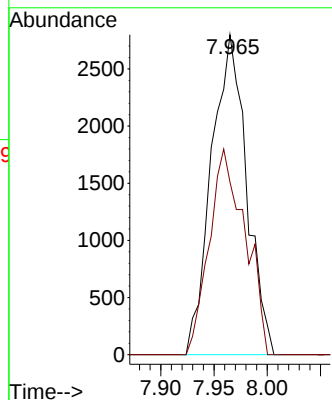
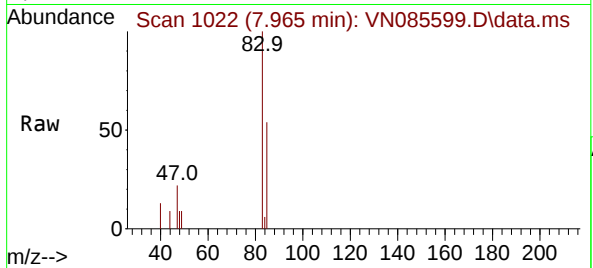




#30  
Chloroform  
Concen: 1.564 ug/l  
RT: 7.965 min Scan# 1065  
Delta R.T. 0.006 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

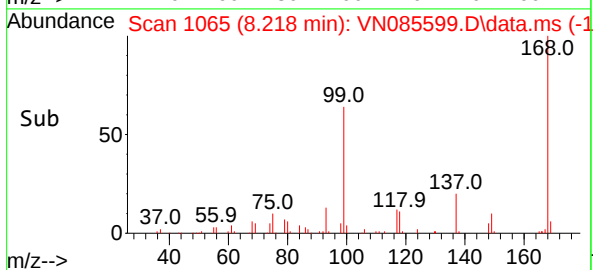
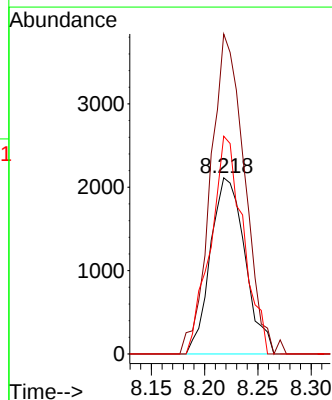
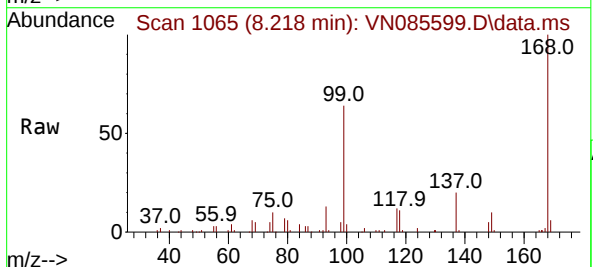
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MSVOA\_N  
ClientSampleId :

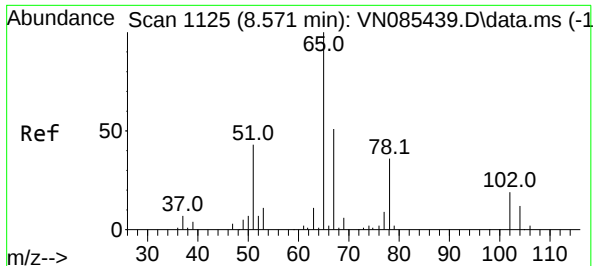
Tgt Ion: 83 Resp: 6420  
Ion Ratio Lower Upper  
83 100  
85 54.0 51.8 77.6



#31  
Cyclohexane  
Concen: 1.384 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.035 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

Tgt Ion: 56 Resp: 4777  
Ion Ratio Lower Upper  
56 100  
69 181.7 22.2 33.4#  
84 123.6 66.4 99.6#

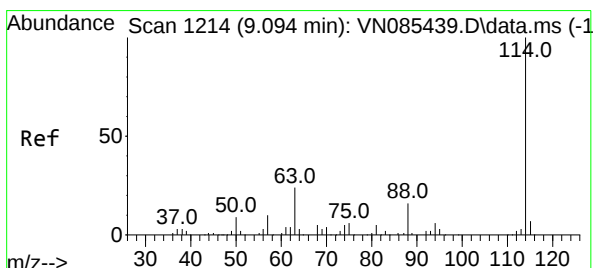
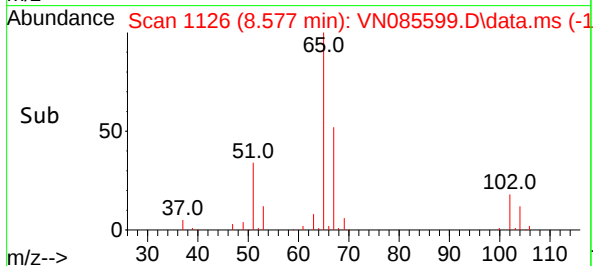
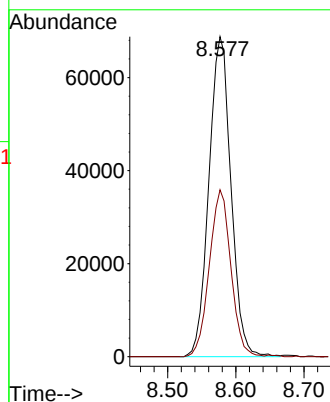
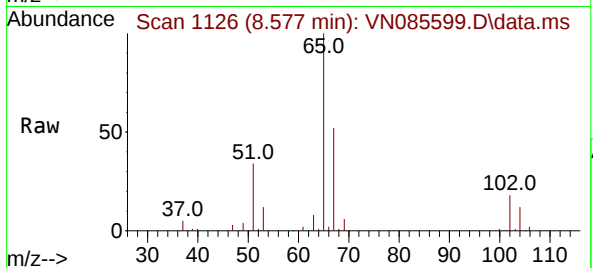




#33  
 1,2-Dichloroethane-d4  
 Concen: 56.920 ug/l  
 RT: 8.577 min Scan# 1125  
 Delta R.T. 0.006 min  
 Lab File: VN085599.D  
 Acq: 31 Jan 2025 14:03

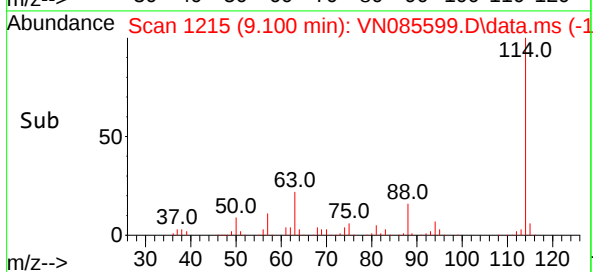
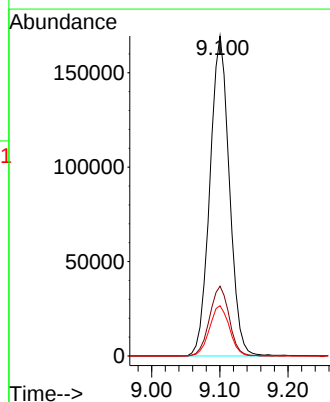
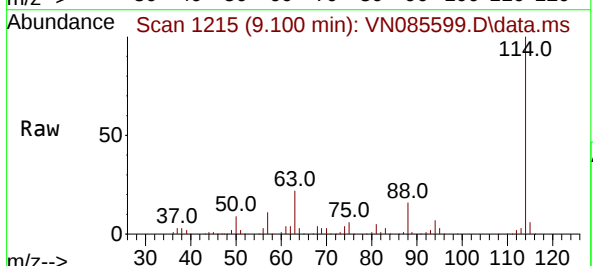
Instrument :  
 MSVOA\_N  
 ClientSampleId :

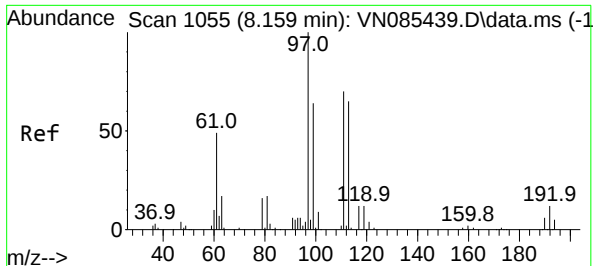
Tgt Ion: 65 Resp: 154856  
 Ion Ratio Lower Upper  
 65 100  
 67 50.9 0.0 101.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 9.100 min Scan# 1215  
 Delta R.T. 0.006 min  
 Lab File: VN085599.D  
 Acq: 31 Jan 2025 14:03

Tgt Ion: 114 Resp: 336774  
 Ion Ratio Lower Upper  
 114 100  
 63 21.8 0.0 47.6  
 88 15.7 0.0 32.6





#35

Dibromofluoromethane

Concen: 50.047 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

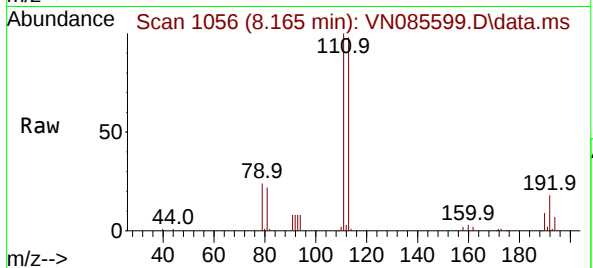
Lab File: VN085599.D

Acq: 31 Jan 2025 14:03

Instrument :

MSVOA\_N

ClientSampleId :



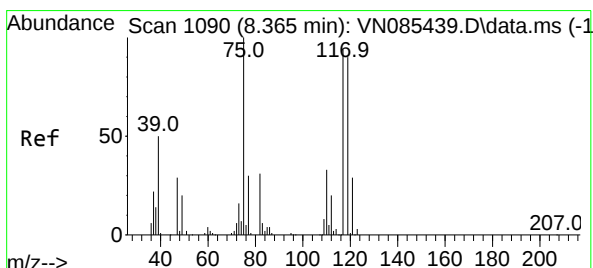
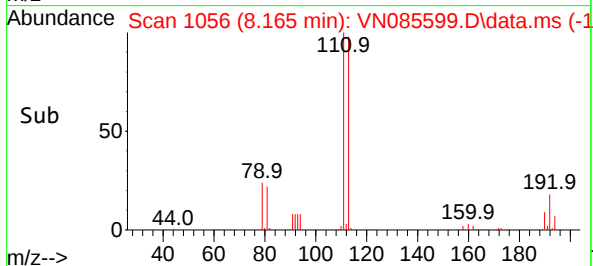
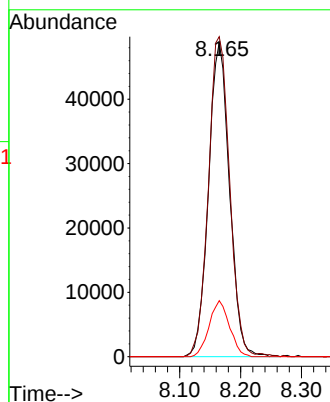
Tgt Ion:113 Resp: 116930

Ion Ratio Lower Upper

113 100

111 103.3 82.7 124.1

192 17.3 14.3 21.5



#36

1,1-Dichloropropene

Concen: 5.001 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.135 min

Lab File: VN085599.D

Acq: 31 Jan 2025 14:03

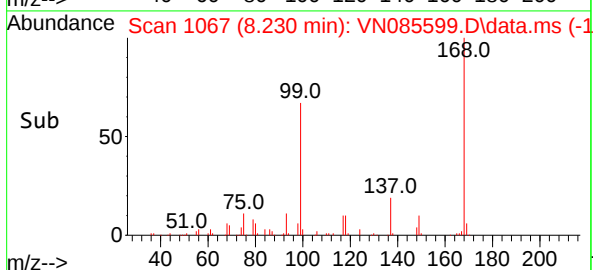
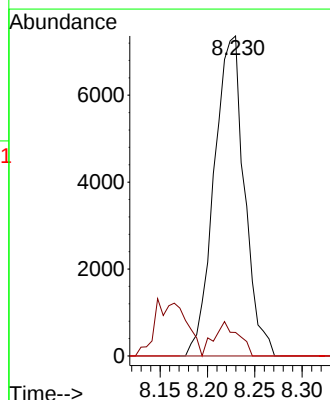
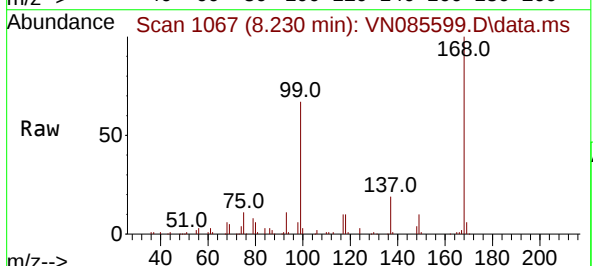
Tgt Ion: 75 Resp: 16399

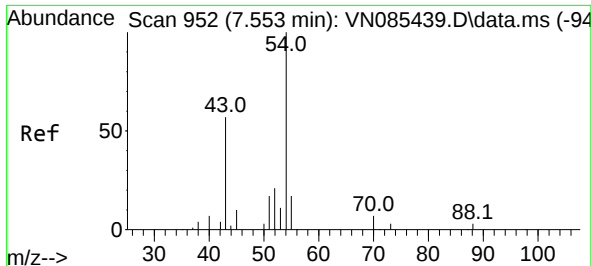
Ion Ratio Lower Upper

75 100

110 8.5 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

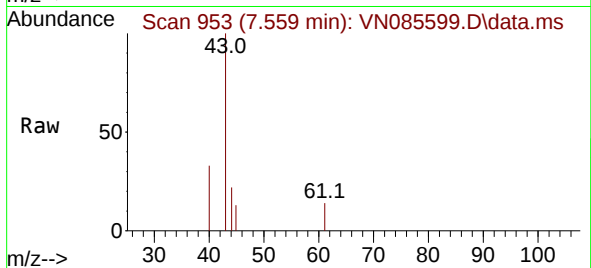
Lab File: VN085599.D

Acq: 31 Jan 2025 14:03

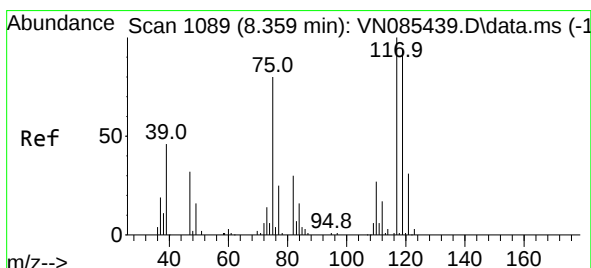
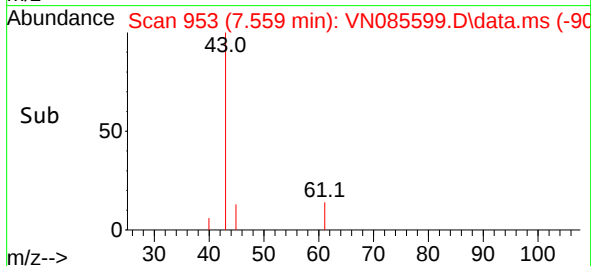
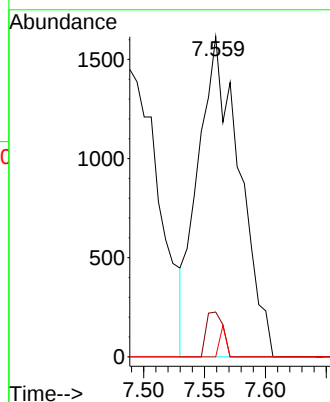
Instrument :

MSVOA\_N

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 3835  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 5.6   | 10.9  | 16.3# |
| 70       | 1.5   | 7.5   | 11.3# |



#38

Carbon Tetrachloride

Concen: 5.141 ug/l

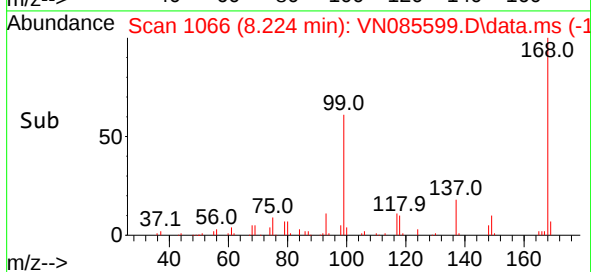
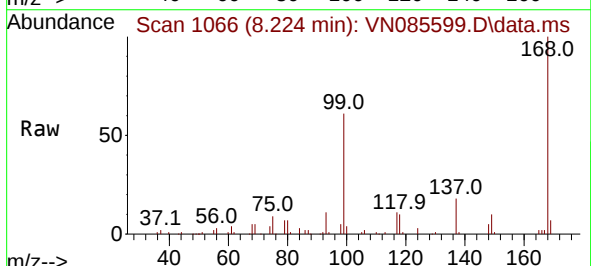
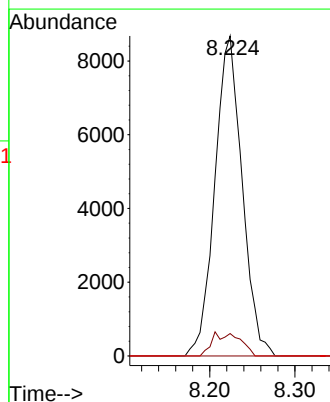
RT: 8.224 min Scan# 1066

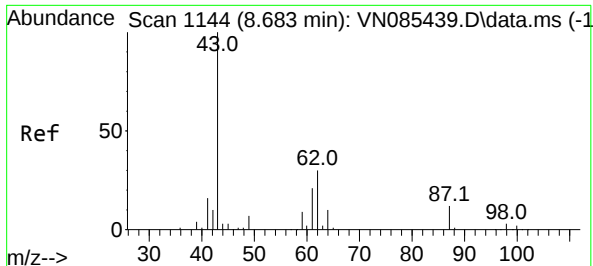
Delta R.T. -0.135 min

Lab File: VN085599.D

Acq: 31 Jan 2025 14:03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 19298  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 7.0   | 75.4  | 113.2# |
| 121      | 0.0   | 24.6  | 37.0#  |

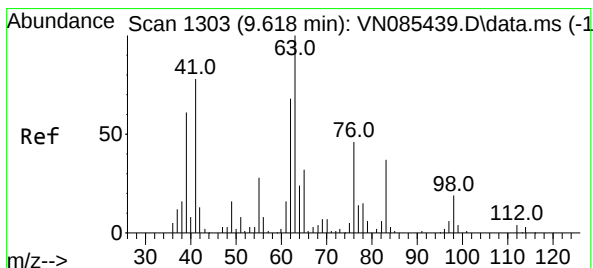
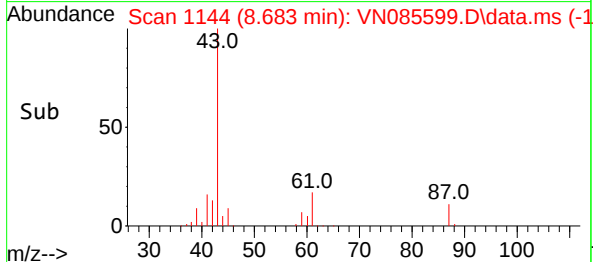
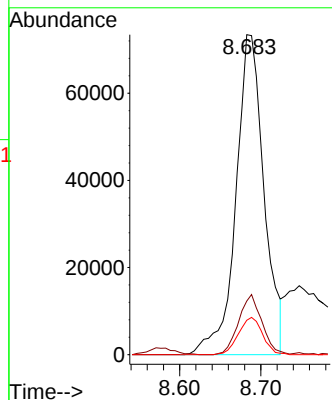
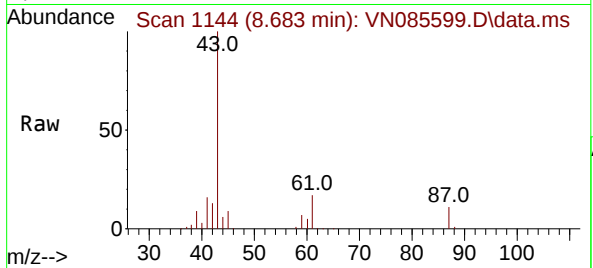




#43  
Isopropyl Acetate  
Concen: 33.390 ug/l  
RT: 8.683 min Scan# 1144  
Delta R.T. 0.000 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

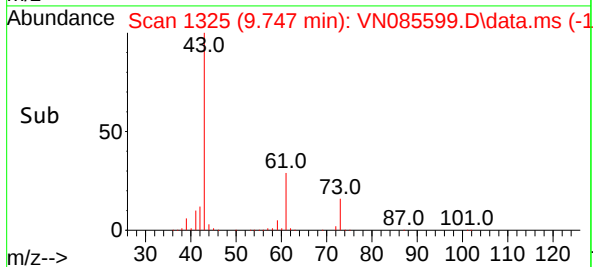
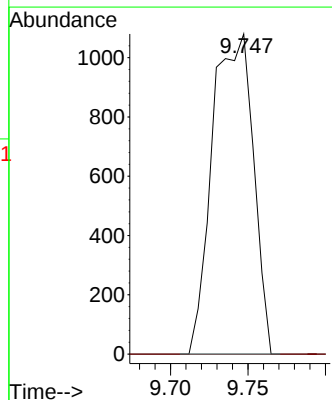
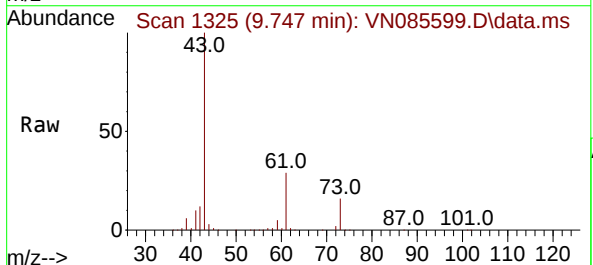
Instrument :  
MSVOA\_N  
ClientSampleId :

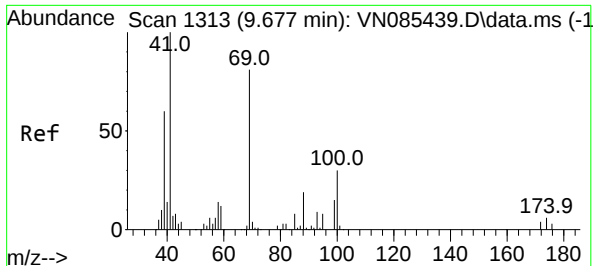
Tgt Ion: 43 Resp: 177079  
Ion Ratio Lower Upper  
43 100  
61 15.6 20.7 31.1#  
87 10.0 9.8 14.8



#45  
1,2-Dichloropropane  
Concen: 0.787 ug/l  
RT: 9.747 min Scan# 1325  
Delta R.T. 0.130 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

Tgt Ion: 63 Resp: 1980  
Ion Ratio Lower Upper  
63 100  
65 0.0 25.6 38.4#

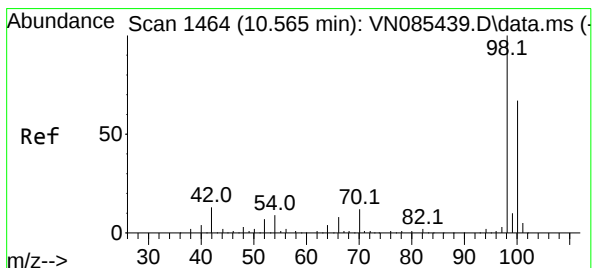
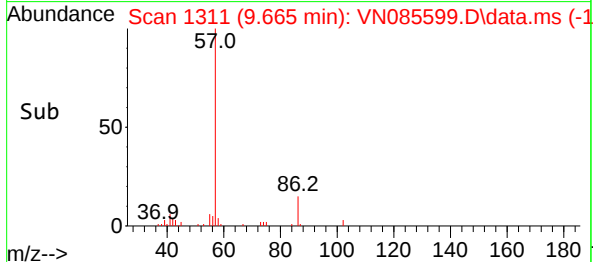
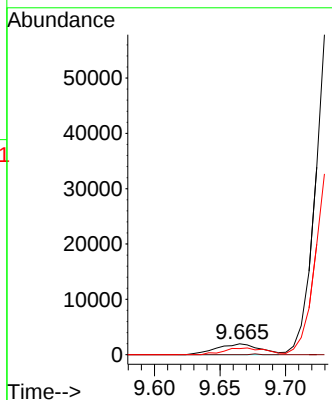
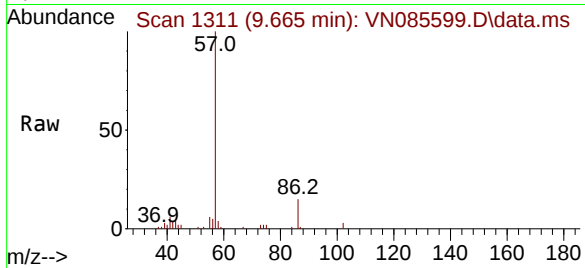




#48  
Methyl methacrylate  
Concen: 1.880 ug/l  
RT: 9.665 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

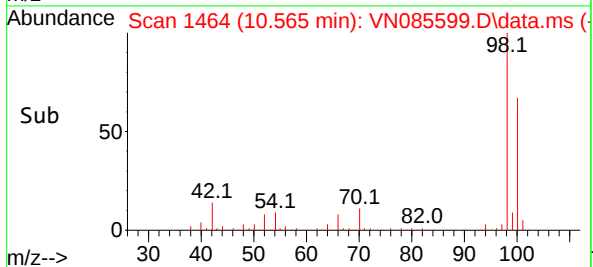
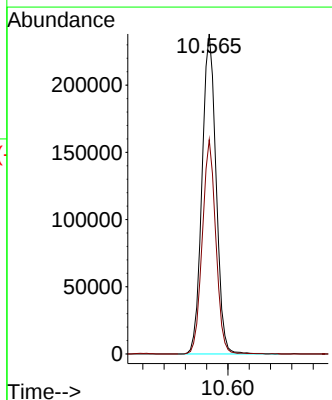
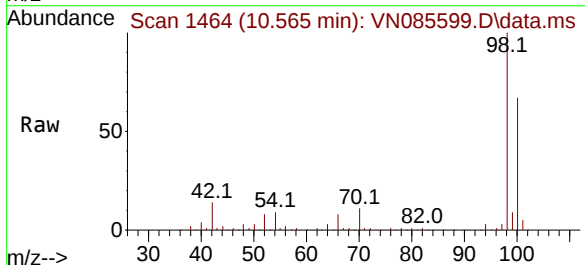
Instrument :  
MSVOA\_N  
ClientSampleId :

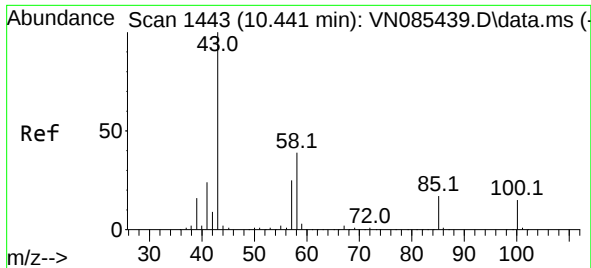
Tgt Ion: 41 Resp: 4486  
Ion Ratio Lower Upper  
41 100  
69 1.2 64.7 97.1#  
39 60.8 49.0 73.6



#50  
Toluene-d8  
Concen: 52.377 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

Tgt Ion: 98 Resp: 434789  
Ion Ratio Lower Upper  
98 100  
100 64.4 52.2 78.4

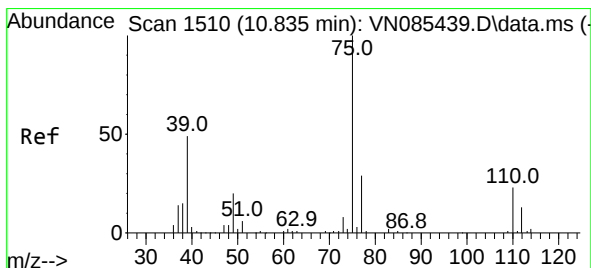
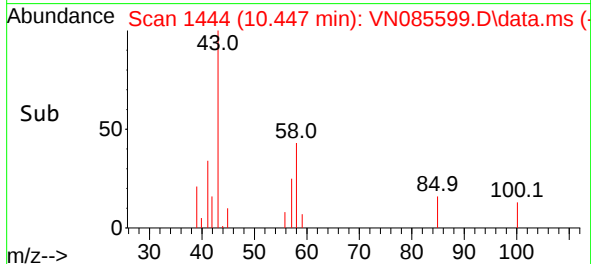
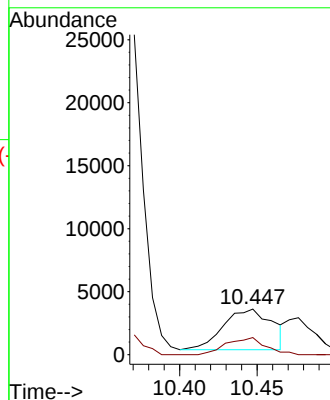
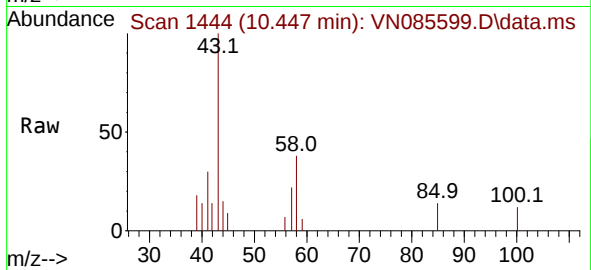




#51  
4-Methyl-2-Pentanone  
Concen: 2.300 ug/l  
RT: 10.447 min Scan# 1443  
Delta R.T. 0.006 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

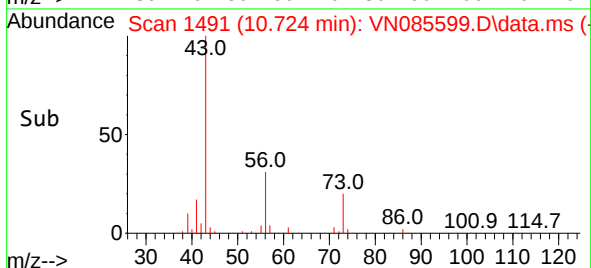
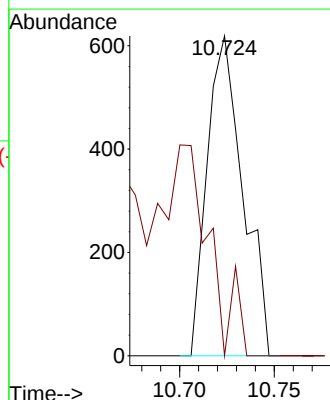
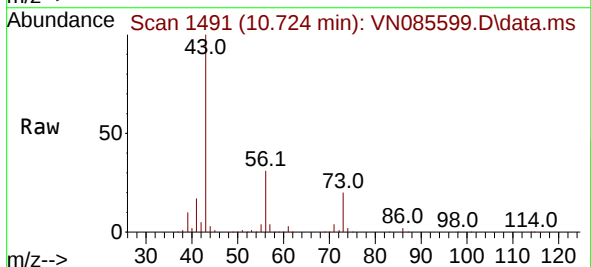
Instrument :  
MSVOA\_N  
ClientSampleId :

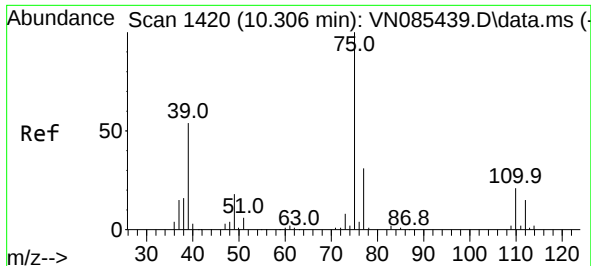
Tgt Ion: 43 Resp: 7077  
Ion Ratio Lower Upper  
43 100  
58 33.5 30.5 45.7



#53  
t-1,3-Dichloropropene  
Concen: 0.233 ug/l  
RT: 10.724 min Scan# 1491  
Delta R.T. -0.112 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

Tgt Ion: 75 Resp: 815  
Ion Ratio Lower Upper  
75 100  
77 0.0 23.5 35.3#

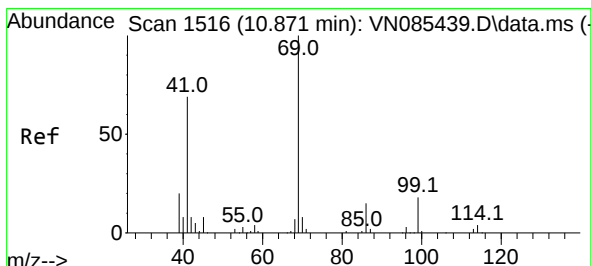
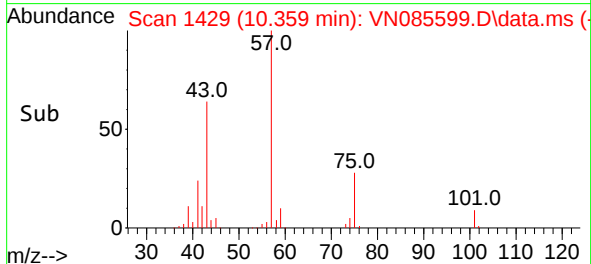
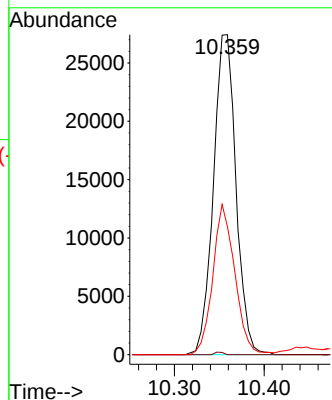
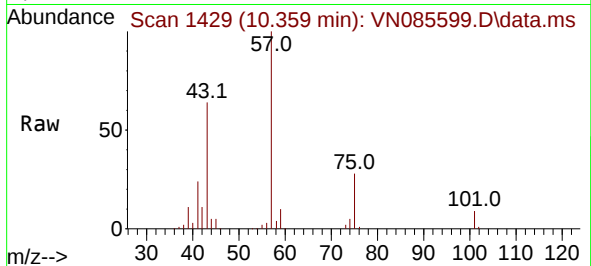




#54  
cis-1,3-Dichloropropene  
Concen: 12.835 ug/l  
RT: 10.359 min Scan# 1429  
Delta R.T. 0.053 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

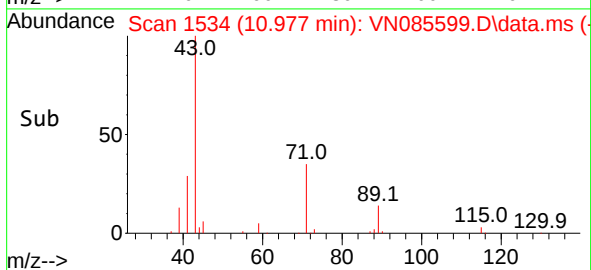
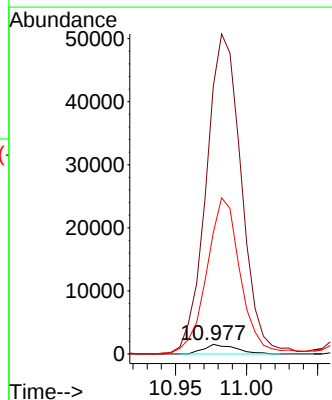
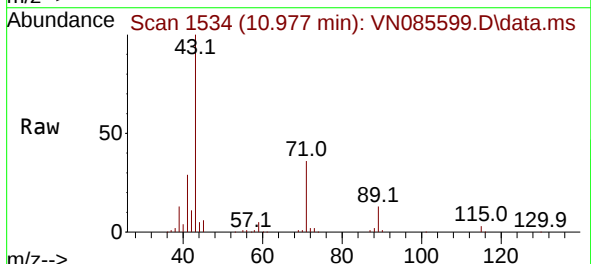
Instrument :  
MSVOA\_N  
ClientSampleId :

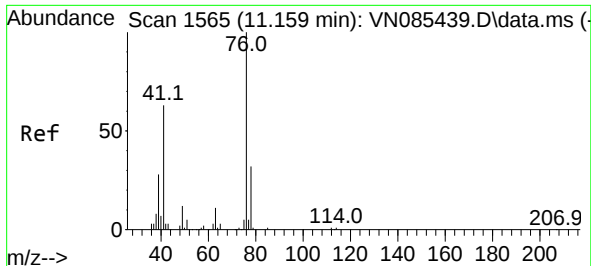
Tgt Ion: 75 Resp: 47932  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.0 37.4#  
39 40.0 43.1 64.7#



#56  
Ethyl methacrylate  
Concen: 2.530 ug/l  
RT: 10.977 min Scan# 1534  
Delta R.T. 0.106 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

Tgt Ion: 69 Resp: 2369  
Ion Ratio Lower Upper  
69 100  
41 3696.2 54.6 82.0#  
39 1733.1 32.4 48.6#





#57

1,3-Dichloropropane

Concen: 1.828 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

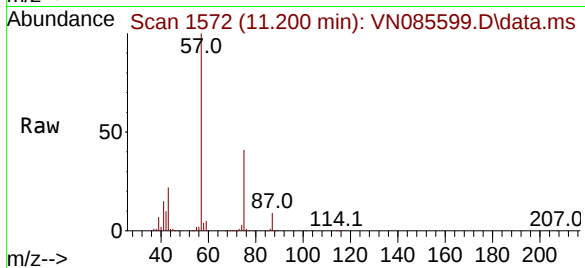
Lab File: VN085599.D

Acq: 31 Jan 2025 14:03

Instrument :

MSVOA\_N

ClientSampleId :

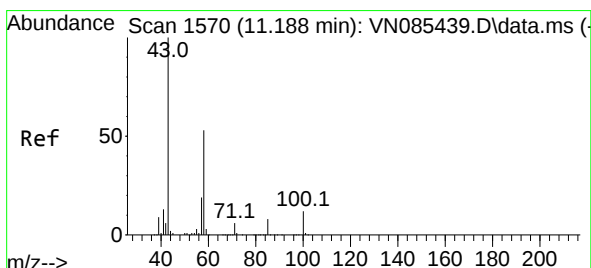
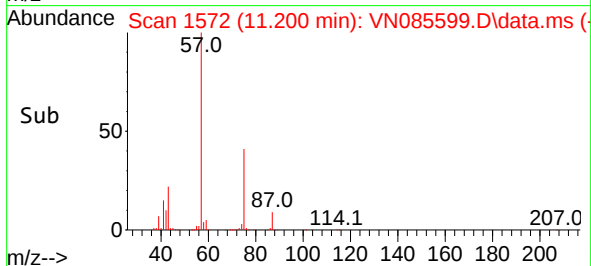
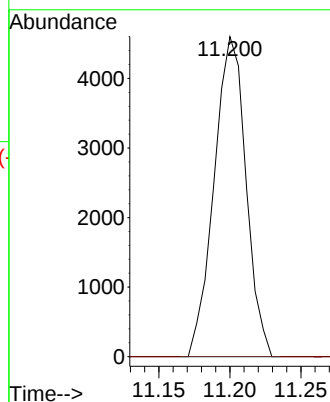


Tgt Ion: 76 Resp: 7180

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 41.257 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.012 min

Lab File: VN085599.D

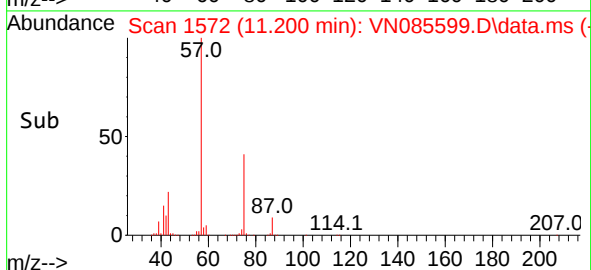
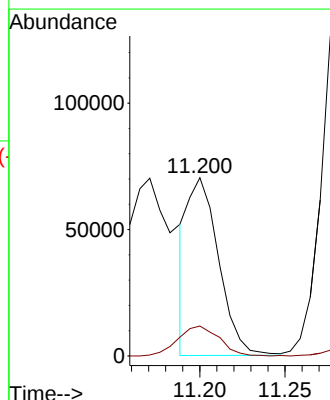
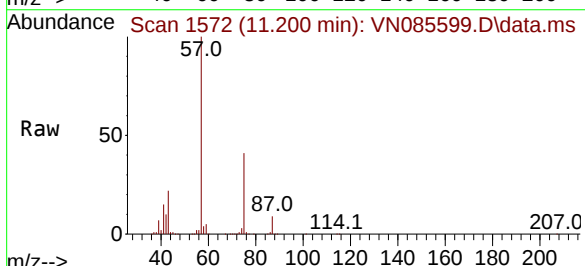
Acq: 31 Jan 2025 14:03

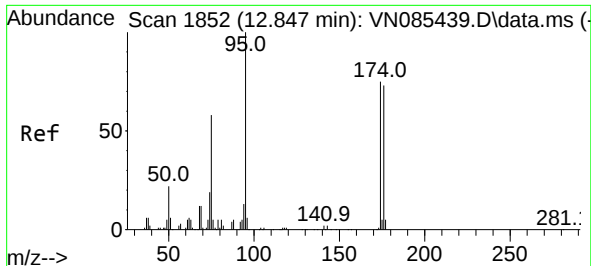
Tgt Ion: 43 Resp: 89338

Ion Ratio Lower Upper

43 100

58 22.4 26.2 78.6#

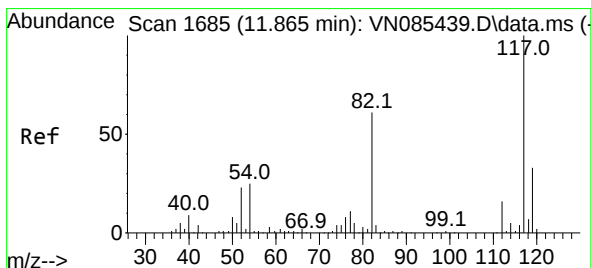
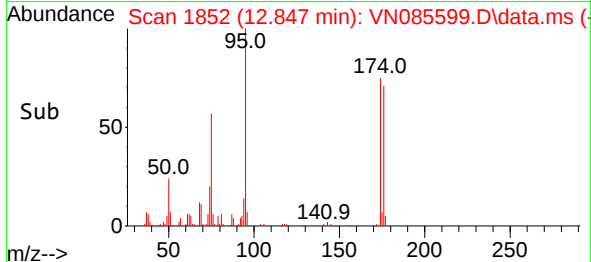
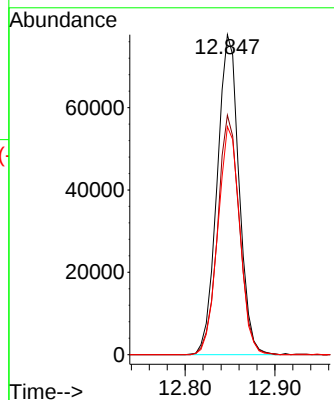
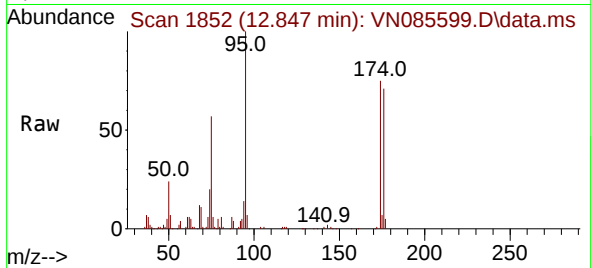




#62  
4-Bromofluorobenzene  
Concen: 46.321 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

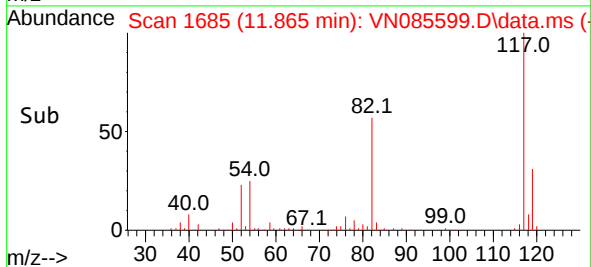
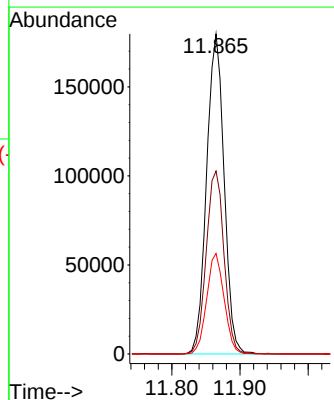
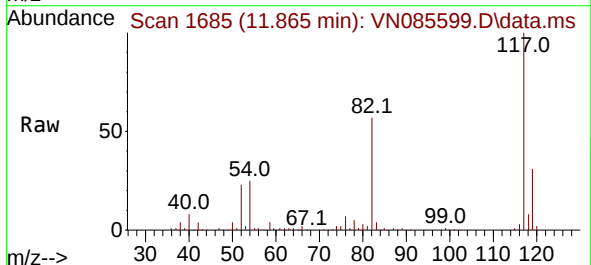
Instrument :  
MSVOA\_N  
ClientSampleId :

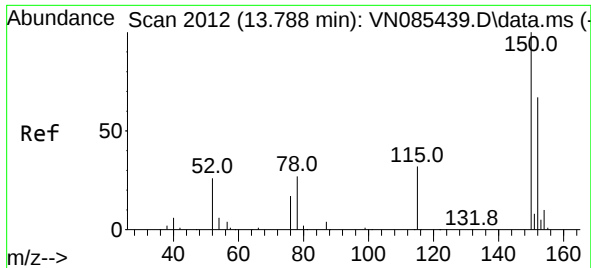
Tgt Ion: 95 Resp: 131532  
Ion Ratio Lower Upper  
95 100  
174 74.5 0.0 145.0  
176 71.6 0.0 142.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. 0.000 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

Tgt Ion: 117 Resp: 321227  
Ion Ratio Lower Upper  
117 100  
82 57.2 48.6 72.8  
119 31.4 26.6 39.8

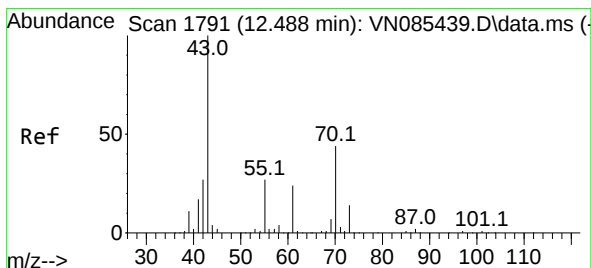
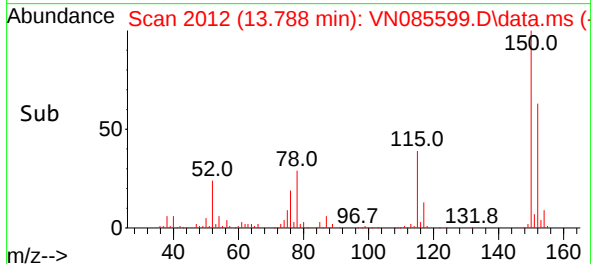
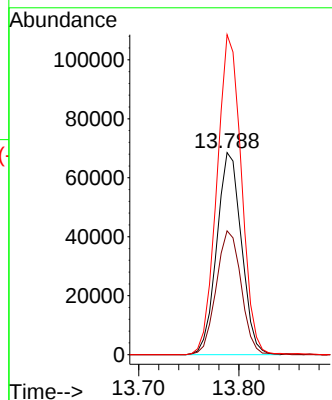
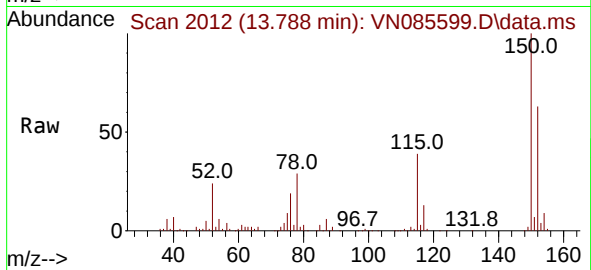




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.788 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

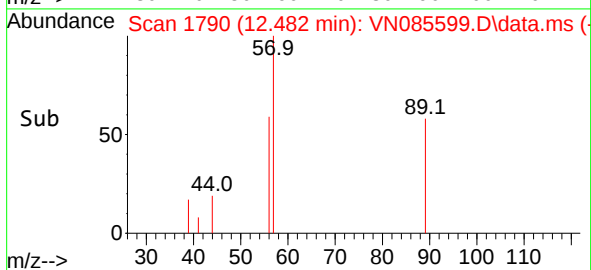
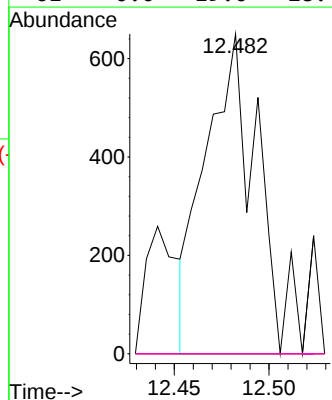
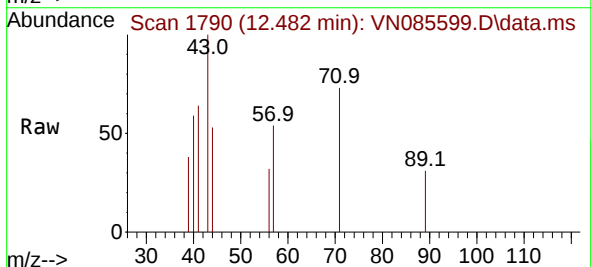
Instrument :  
MSVOA\_N  
ClientSampleId :

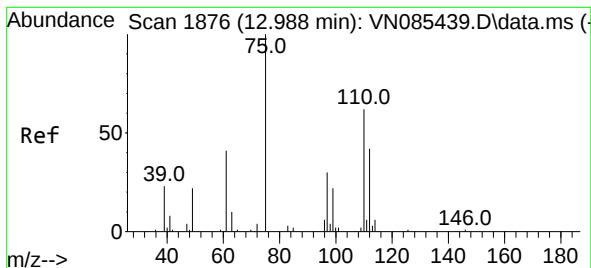
Tgt Ion:152 Resp: 117372  
Ion Ratio Lower Upper  
152 100  
115 61.8 31.1 93.3  
150 157.4 0.0 343.6



#74  
N-ethyl acetate  
Concen: 0.331 ug/l  
RT: 12.482 min Scan# 1790  
Delta R.T. -0.006 min  
Lab File: VN085599.D  
Acq: 31 Jan 2025 14:03

Tgt Ion: 43 Resp: 1180  
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: 30.518 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN085599.D

Acq: 31 Jan 2025 14:03

Instrument :

MSVOA\_N

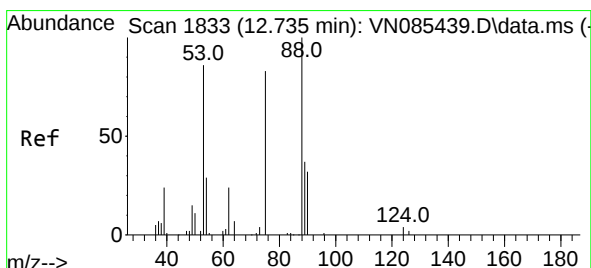
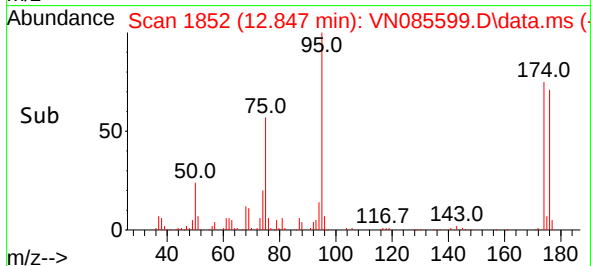
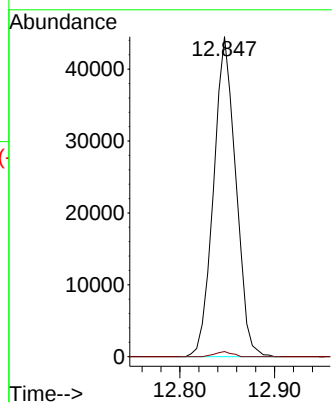
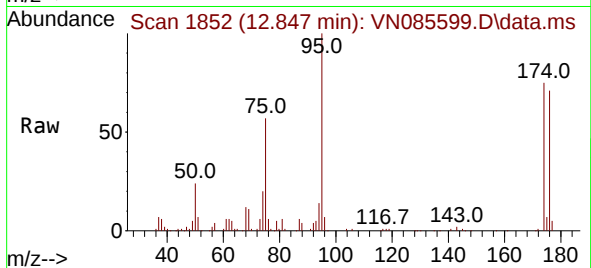
ClientSampleId :

Tgt Ion: 75 Resp: 72804

Ion Ratio Lower Upper

75 100

77 1.2 109.7 329.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 82.568 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN085599.D

Acq: 31 Jan 2025 14:03

Tgt Ion: 75 Resp: 72804

Ion Ratio Lower Upper

75 100

53 0.1 95.6 143.4#

89 0.0 37.0 55.6#

