

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN030625\  
 Data File : VN085907.D  
 Acq On : 06 Mar 2025 18:43  
 Operator : JC\MD  
 Sample : PB166989ZHE#09  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB166989ZHE#09

Quant Time: Mar 07 00:43:36 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021825W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 19 03:43:32 2025  
 Response via : Initial Calibration

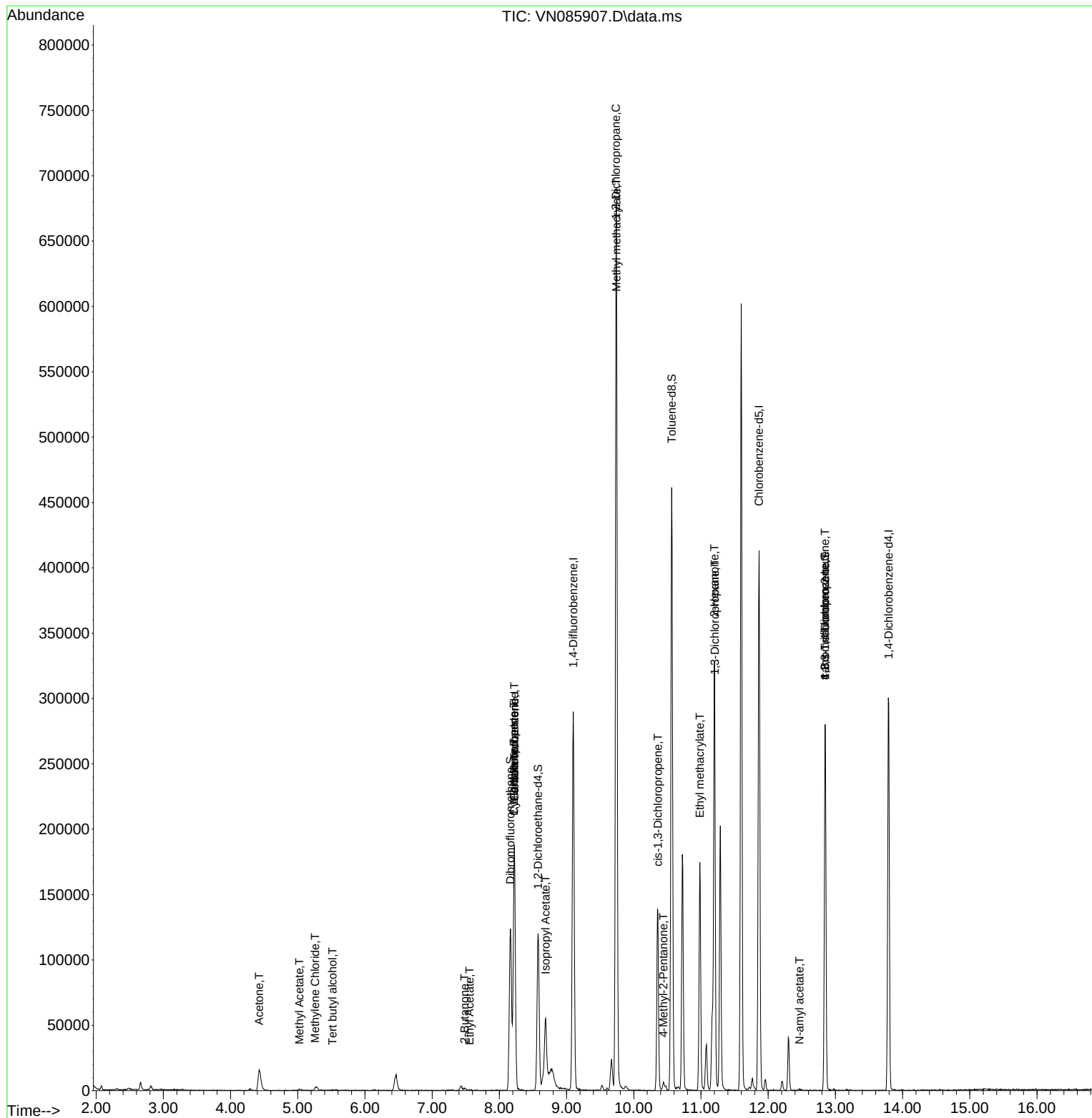
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 135383   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 250623   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 247171   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 89120    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 104595   | 59.592   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 119.180% |
| 35) Dibromofluoromethane      | 8.165  | 113   | 88674    | 54.071   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 108.140% |
| 50) Toluene-d8                | 10.565 | 98    | 328665   | 55.084   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 110.160% |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 96944    | 49.313   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | =      | 98.620%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 11) Tert butyl alcohol        | 5.518  | 59    | 132      | 0.611    | ug/l # | 72       |
| 16) Acetone                   | 4.424  | 43    | 29532    | 53.175   | ug/l   | 89       |
| 18) Methyl Acetate            | 5.024  | 43    | 1663     | 0.871    | ug/l # | 47       |
| 20) Methylene Chloride        | 5.259  | 84    | 941      | 0.527    | ug/l # | 72       |
| 25) 2-Butanone                | 7.483  | 43    | 2982     | 3.650    | ug/l # | 72       |
| 31) Cyclohexane               | 8.218  | 56    | 2692     | 1.074    | ug/l # | 11       |
| 36) 1,1-Dichloropropene       | 8.218  | 75    | 9776     | 4.212    | ug/l # | 51       |
| 37) Ethyl Acetate             | 7.559  | 43    | 1573     | 0.824    | ug/l # | 71       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 14402    | 5.222    | ug/l # | 19       |
| 43) Isopropyl Acetate         | 8.688  | 43    | 66526    | 19.513   | ug/l # | 83       |
| 45) 1,2-Dichloropropane       | 9.735  | 63    | 1106     | 0.616    | ug/l # | 43       |
| 48) Methyl methacrylate       | 9.741  | 41    | 59809    | 42.163   | ug/l # | 37       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43    | 6263     | 3.401    | ug/l # | 64       |
| 54) cis-1,3-Dichloropropene   | 10.359 | 75    | 27334    | 9.948    | ug/l # | 63       |
| 56) Ethyl methacrylate        | 10.982 | 69    | 1408     | 1.090    | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 11.206 | 76    | 3593     | 1.241    | ug/l # | 42       |
| 59) 2-Hexanone                | 11.200 | 43    | 39603    | 31.260   | ug/l # | 53       |
| 74) N-amyl acetate            | 12.465 | 43    | 1421     | 0.660    | ug/l # | 37       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 48928    | 24.715   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 48928    | 72.114   | ug/l # | 12       |
| -----                         |        |       |          |          |        |          |

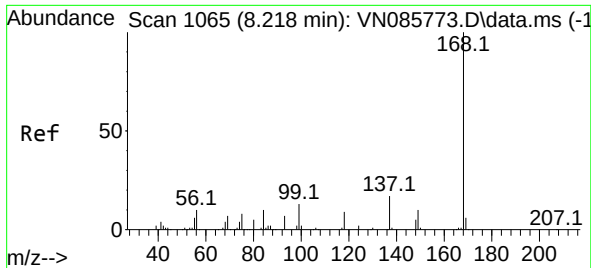
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Feb 19 03:43:32 2025  
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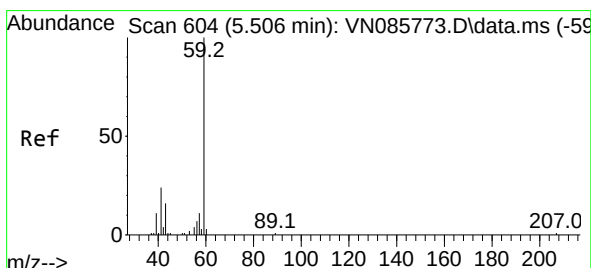
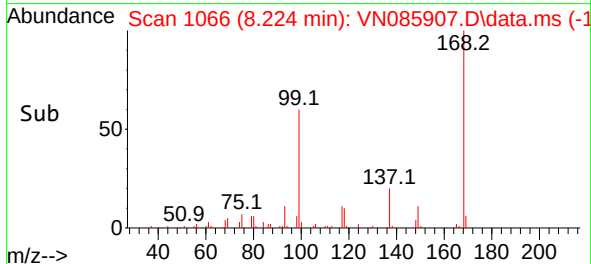
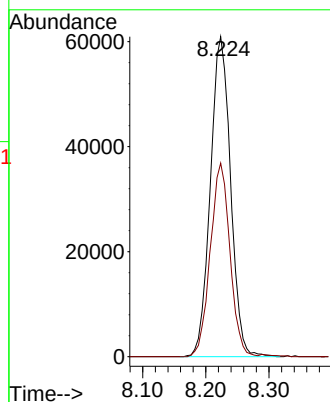
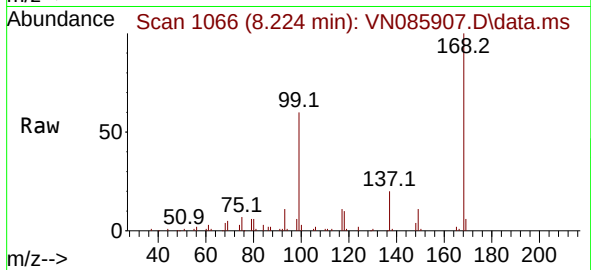




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1065  
Delta R.T. 0.006 min  
Lab File: VN085907.D  
Acq: 06 Mar 2025 18:43

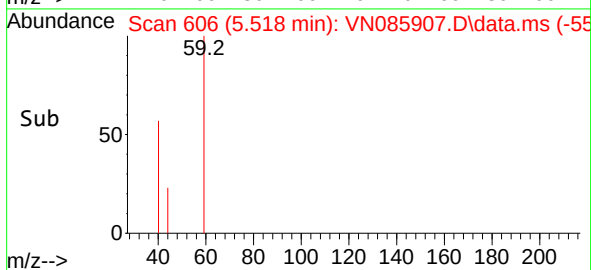
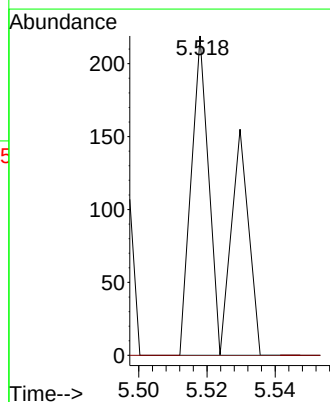
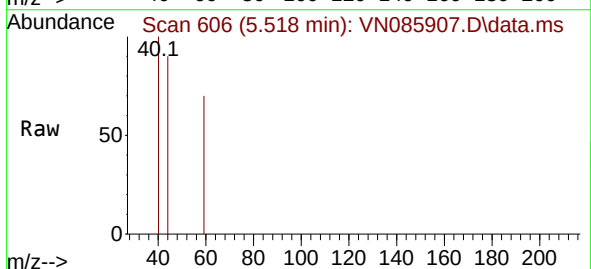
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB166989ZHE#09

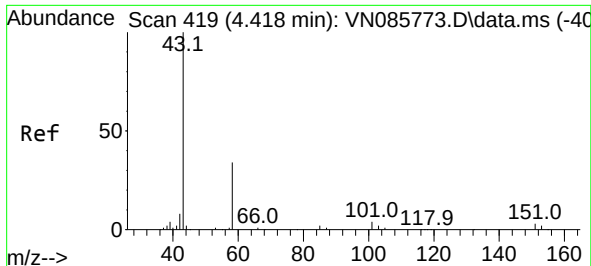
Tgt Ion:168 Resp: 135383  
Ion Ratio Lower Upper  
168 100  
99 60.5 47.9 71.9



#11  
Tert butyl alcohol  
Concen: 0.611 ug/l  
RT: 5.518 min Scan# 606  
Delta R.T. 0.012 min  
Lab File: VN085907.D  
Acq: 06 Mar 2025 18:43

Tgt Ion: 59 Resp: 132  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#

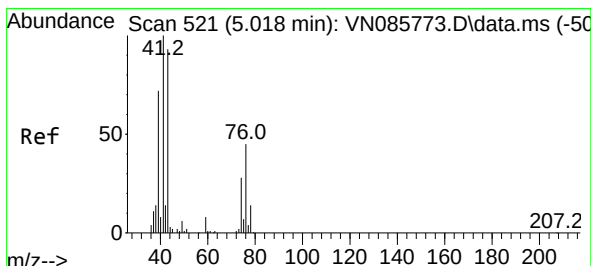
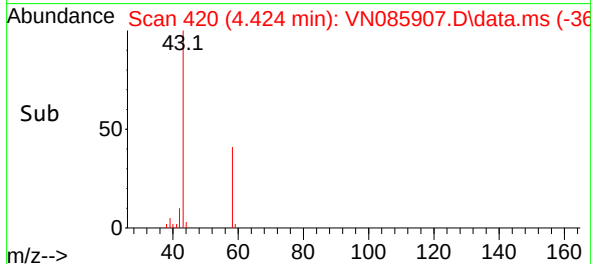
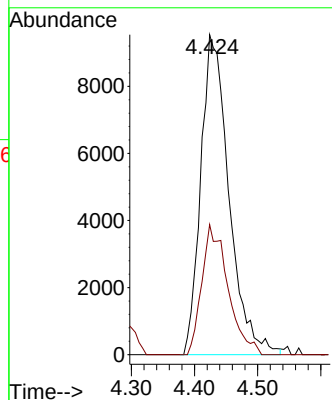
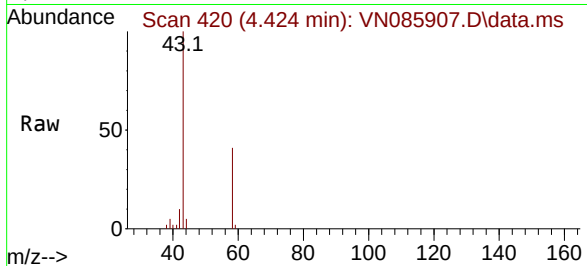




#16  
Acetone  
Concen: 53.175 ug/l  
RT: 4.424 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VN085907.D  
Acq: 06 Mar 2025 18:43

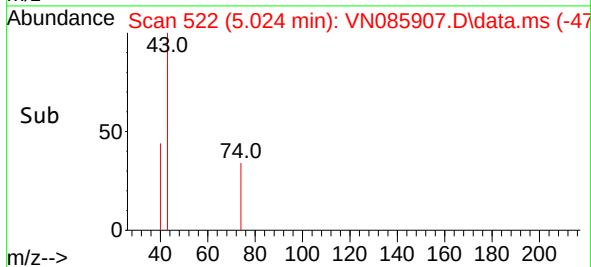
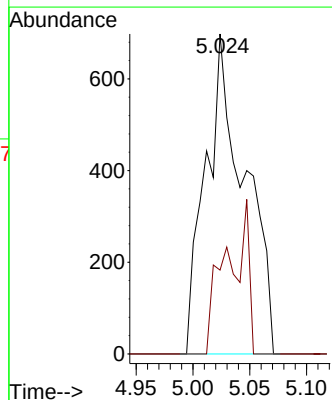
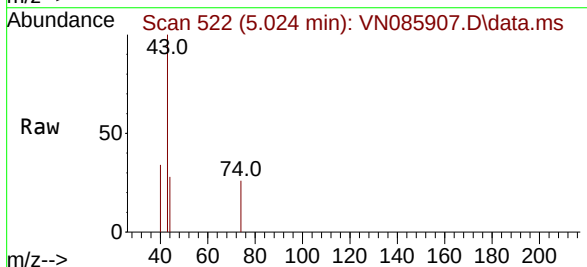
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB166989ZHE#09

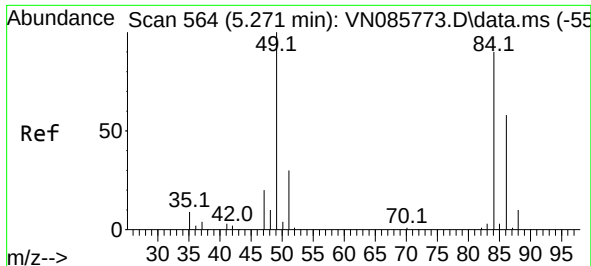
Tgt Ion: 43 Resp: 29532  
Ion Ratio Lower Upper  
43 100  
58 40.7 27.5 41.3



#18  
Methyl Acetate  
Concen: 0.871 ug/l  
RT: 5.024 min Scan# 522  
Delta R.T. 0.006 min  
Lab File: VN085907.D  
Acq: 06 Mar 2025 18:43

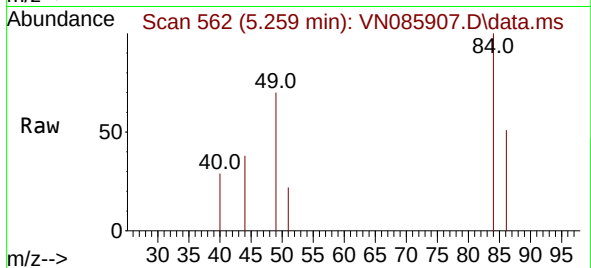
Tgt Ion: 43 Resp: 1663  
Ion Ratio Lower Upper  
43 100  
74 0.0 22.2 33.4#





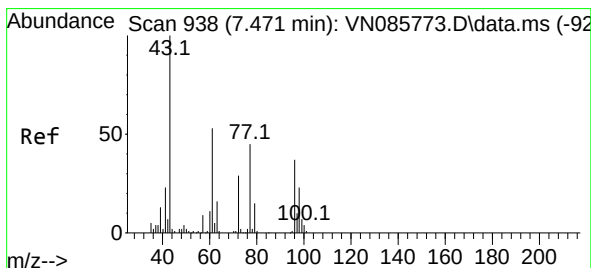
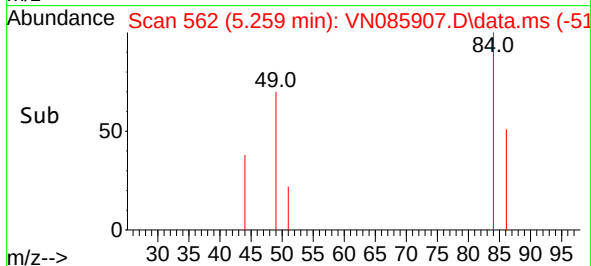
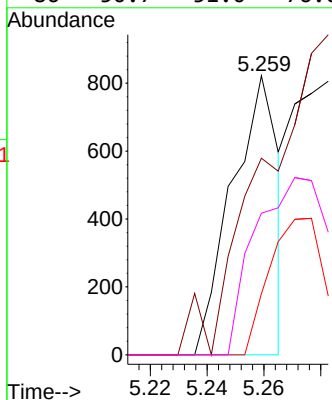
#20  
Methylene Chloride  
Concen: 0.527 ug/l  
RT: 5.259 min Scan# 51  
Delta R.T. -0.012 min  
Lab File: VN085907.D  
Acq: 06 Mar 2025 18:43

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB166989ZHE#09



Tgt Ion: 84 Resp: 941

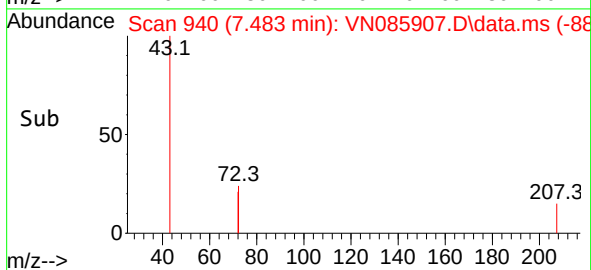
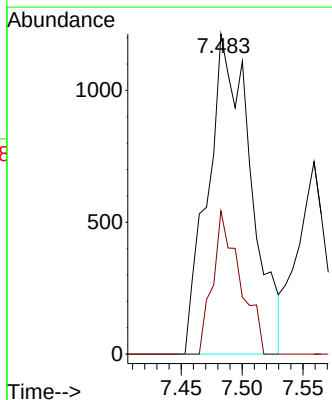
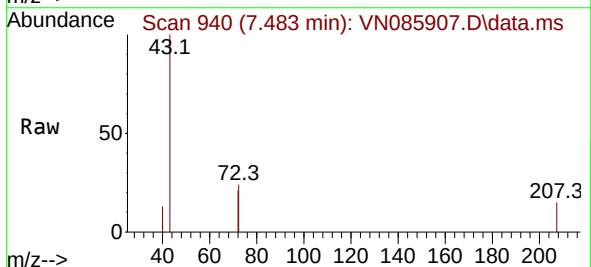
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 70.4  | 88.4  | 132.6# |
| 51  | 21.9  | 26.6  | 40.0#  |
| 86  | 50.7  | 51.0  | 76.6#  |

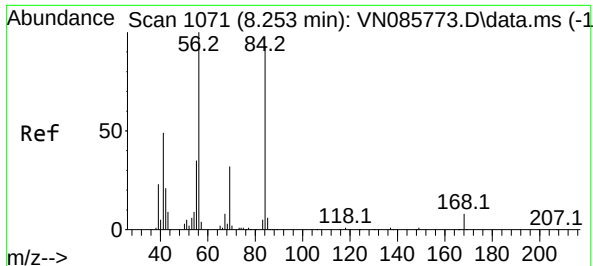


#25  
2-Butanone  
Concen: 3.650 ug/l  
RT: 7.483 min Scan# 940  
Delta R.T. 0.012 min  
Lab File: VN085907.D  
Acq: 06 Mar 2025 18:43

Tgt Ion: 43 Resp: 2982

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 44.7  | 23.6  | 35.4# |

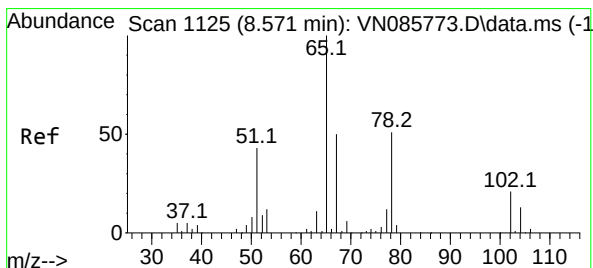
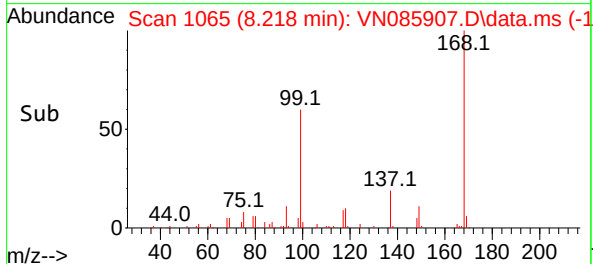
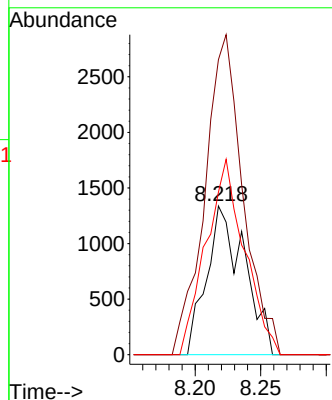
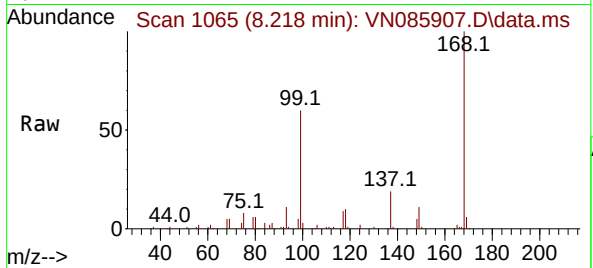




#31  
Cyclohexane  
Concen: 1.074 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.035 min  
Lab File: VN085907.D  
Acq: 06 Mar 2025 18:43

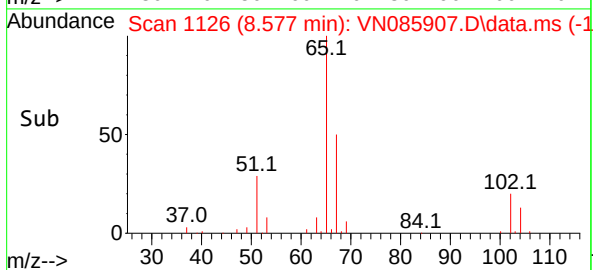
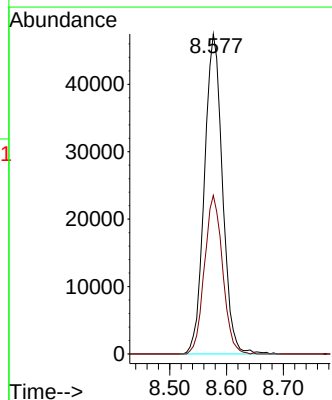
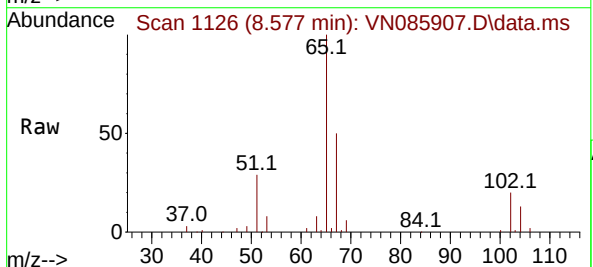
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB166989ZHE#09

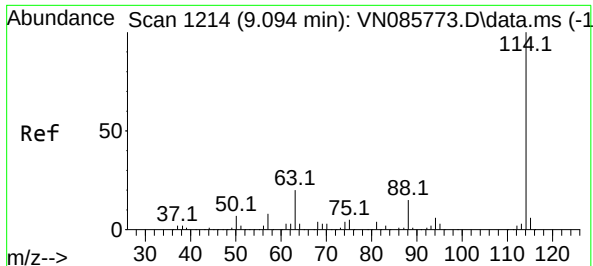
Tgt Ion: 56 Resp: 2692  
Ion Ratio Lower Upper  
56 100  
69 198.5 25.8 38.6#  
84 109.4 74.5 111.7



#33  
1,2-Dichloroethane-d4  
Concen: 59.592 ug/l  
RT: 8.577 min Scan# 1126  
Delta R.T. 0.006 min  
Lab File: VN085907.D  
Acq: 06 Mar 2025 18:43

Tgt Ion: 65 Resp: 104595  
Ion Ratio Lower Upper  
65 100  
67 49.7 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085907.D

Acq: 06 Mar 2025 18:43

Instrument :

MSVOA\_N

ClientSampleId :

PB166989ZHE#09

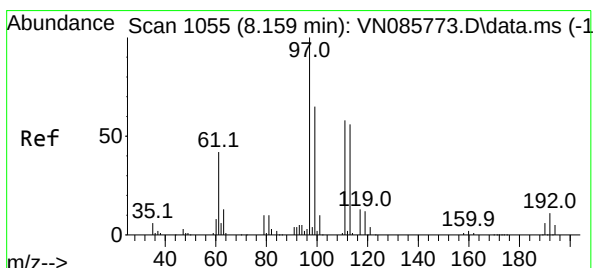
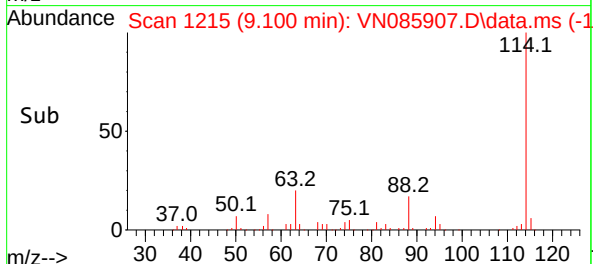
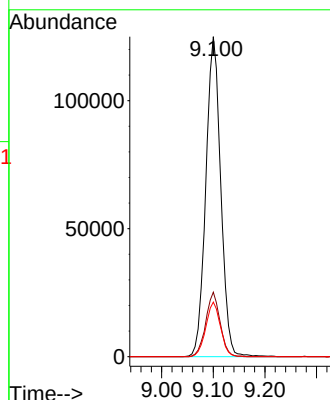
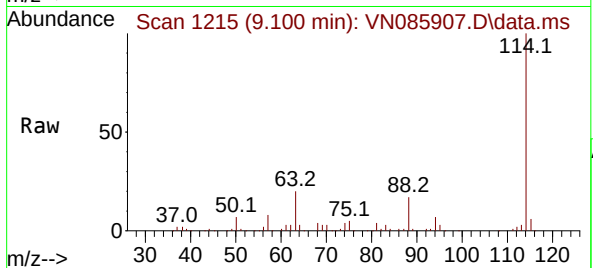
Tgt Ion:114 Resp: 250623

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.2

88 17.0 0.0 30.0



#35

Dibromofluoromethane

Concen: 54.071 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085907.D

Acq: 06 Mar 2025 18:43

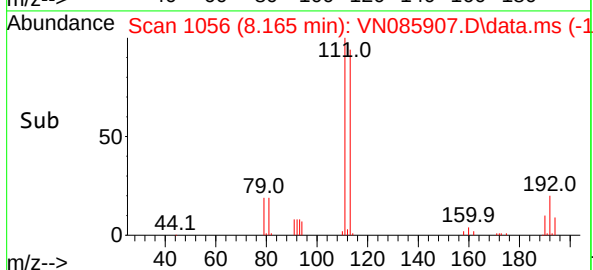
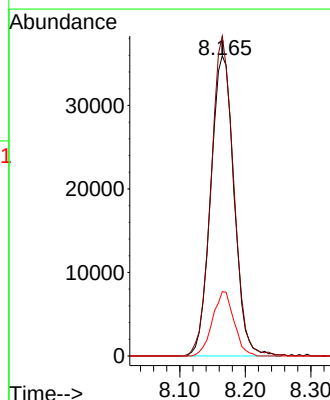
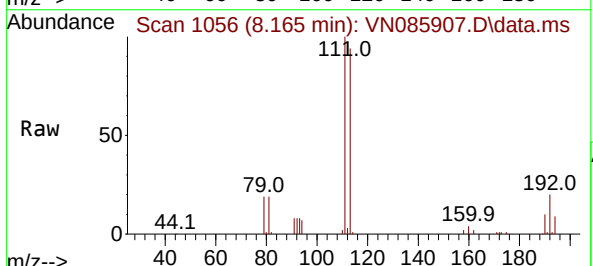
Tgt Ion:113 Resp: 88674

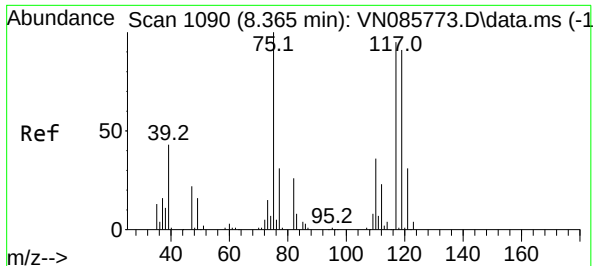
Ion Ratio Lower Upper

113 100

111 103.2 82.2 123.4

192 19.7 14.7 22.1





#36

1,1-Dichloropropene

Concen: 4.212 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN085907.D

Acq: 06 Mar 2025 18:43

Instrument :

MSVOA\_N

ClientSampleId :

PB166989ZHE#09

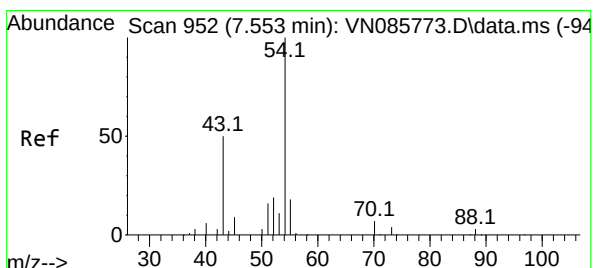
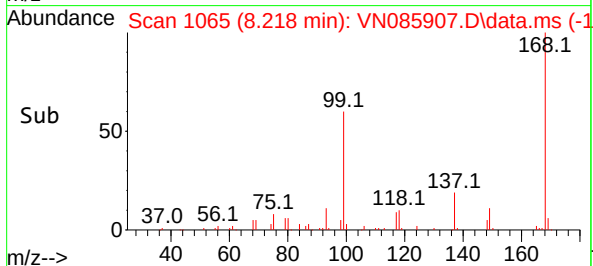
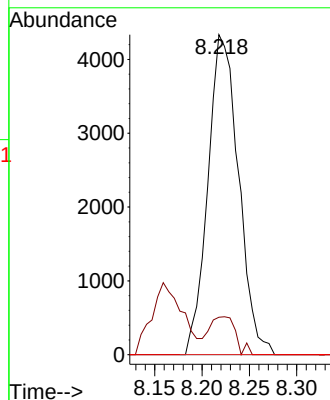
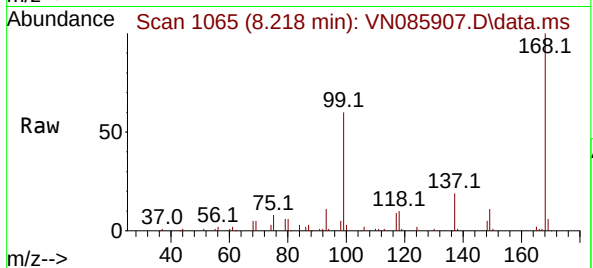
Tgt Ion: 75 Resp: 9776

Ion Ratio Lower Upper

75 100

110 10.1 17.3 52.0#

77 0.0 24.6 37.0#



#37

Ethyl Acetate

Concen: 0.824 ug/l

RT: 7.559 min Scan# 953

Delta R.T. 0.006 min

Lab File: VN085907.D

Acq: 06 Mar 2025 18:43

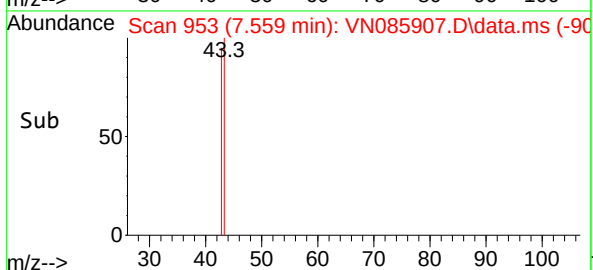
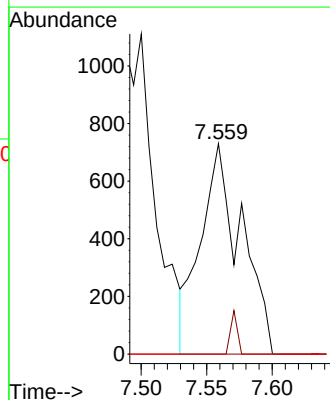
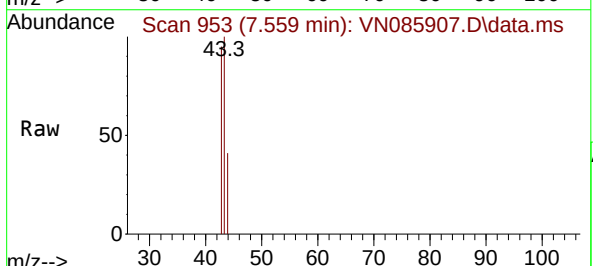
Tgt Ion: 43 Resp: 1573

Ion Ratio Lower Upper

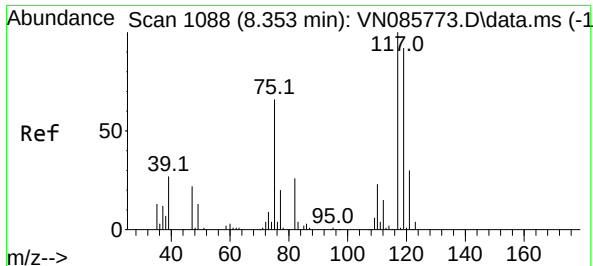
43 100

61 3.4 12.2 18.2#

70 0.0 9.5 14.3#

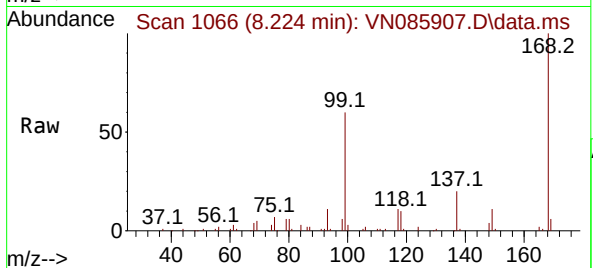




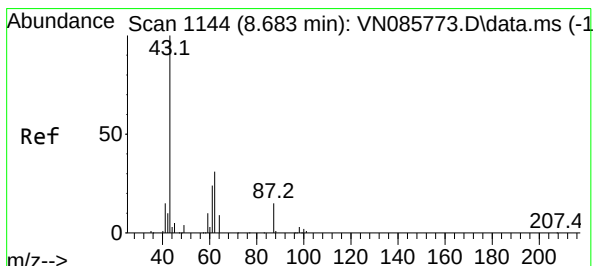
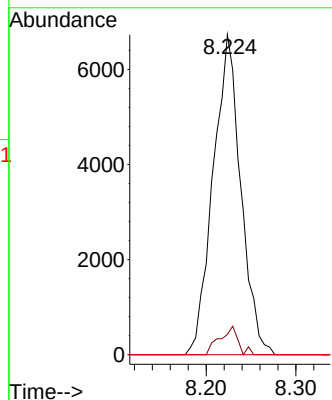
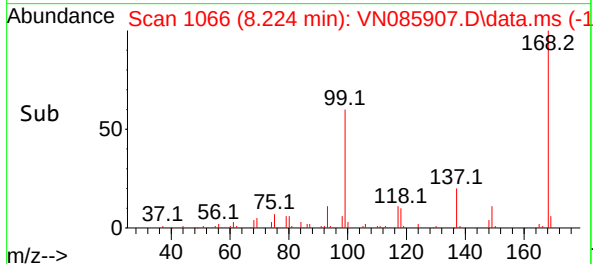


#38  
Carbon Tetrachloride  
Concen: 5.222 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.130 min  
Lab File: VN085907.D  
Acq: 06 Mar 2025 18:43

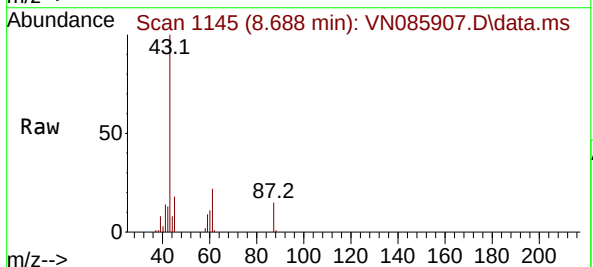
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB166989ZHE#09



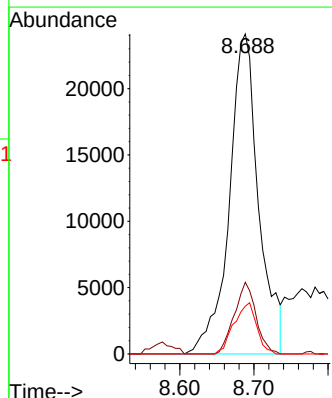
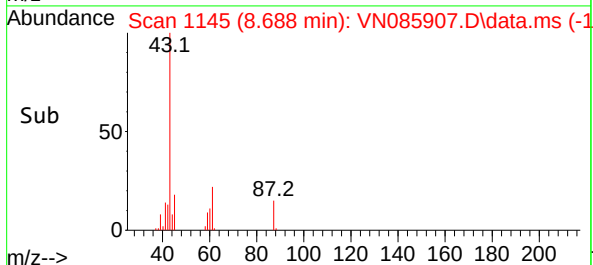
Tgt Ion:117 Resp: 14402  
Ion Ratio Lower Upper  
117 100  
119 6.4 73.8 110.6#  
121 0.0 24.3 36.5#

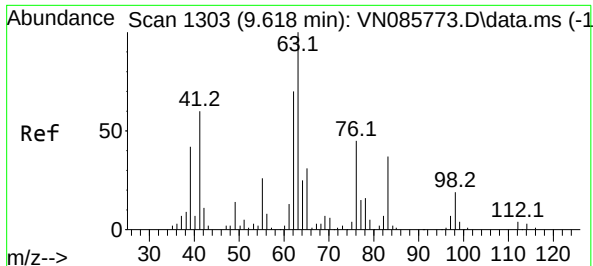


#43  
Isopropyl Acetate  
Concen: 19.513 ug/l  
RT: 8.688 min Scan# 1145  
Delta R.T. 0.005 min  
Lab File: VN085907.D  
Acq: 06 Mar 2025 18:43



Tgt Ion: 43 Resp: 66526  
Ion Ratio Lower Upper  
43 100  
61 16.5 22.6 34.0#  
87 12.3 11.8 17.8





#45

1,2-Dichloropropane

Concen: 0.616 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN085907.D

Acq: 06 Mar 2025 18:43

Instrument :

MSVOA\_N

ClientSampleId :

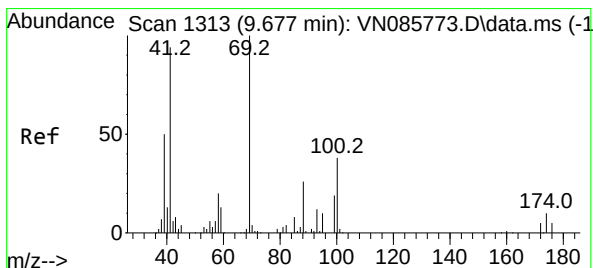
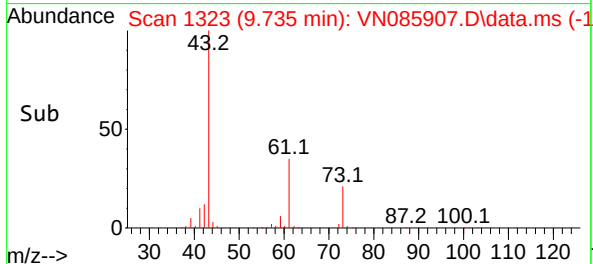
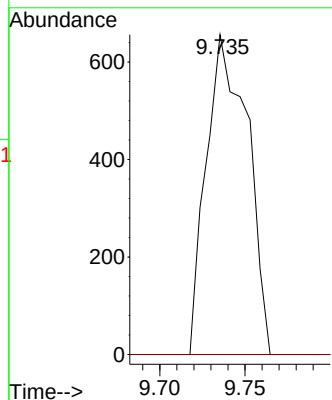
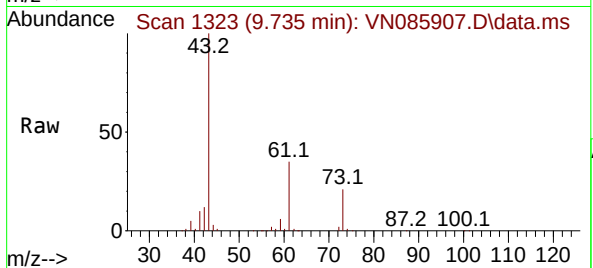
PB166989ZHE#09

Tgt Ion: 63 Resp: 1106

Ion Ratio Lower Upper

63 100

65 0.0 25.1 37.7#



#48

Methyl methacrylate

Concen: 42.163 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN085907.D

Acq: 06 Mar 2025 18:43

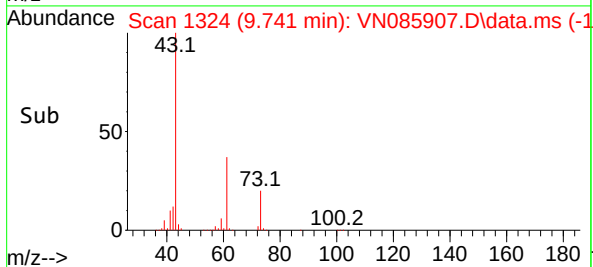
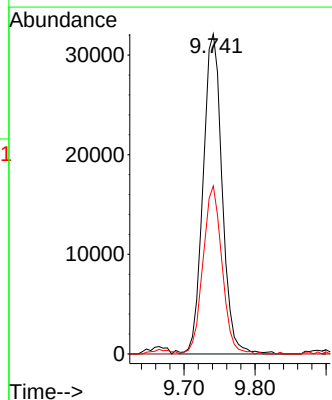
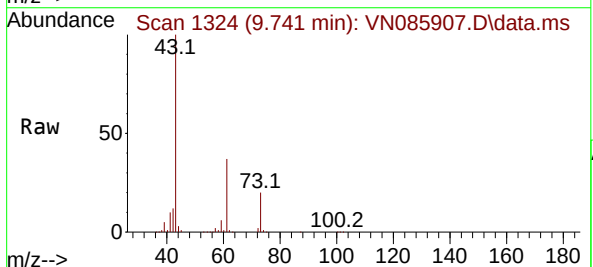
Tgt Ion: 41 Resp: 59809

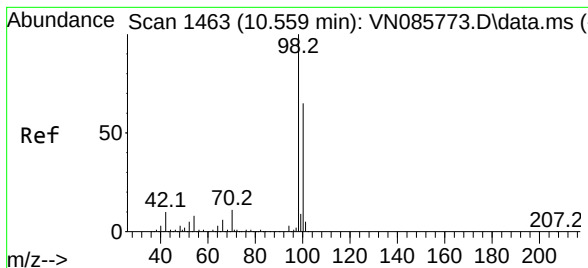
Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

39 52.6 42.3 63.5

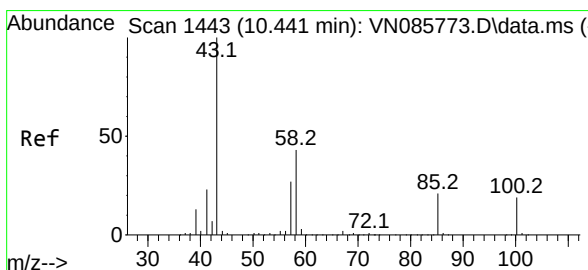
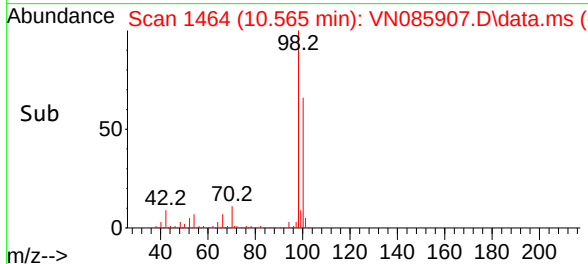
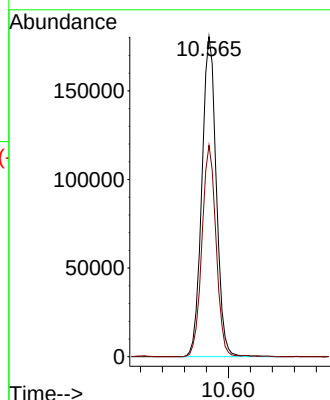
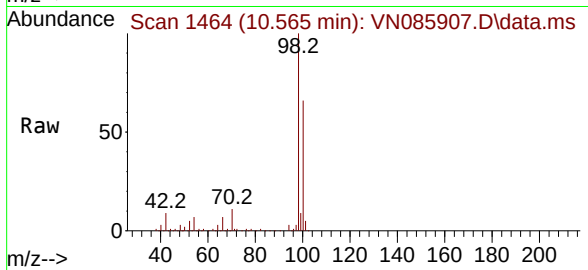




#50  
Toluene-d8  
Concen: 55.084 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.006 min  
Lab File: VN085907.D  
Acq: 06 Mar 2025 18:43

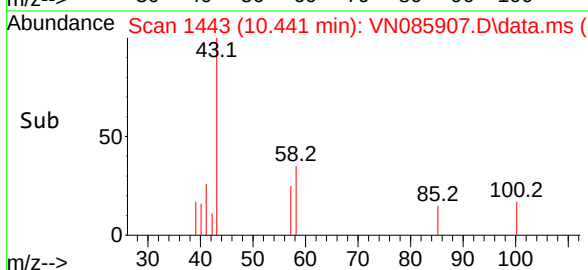
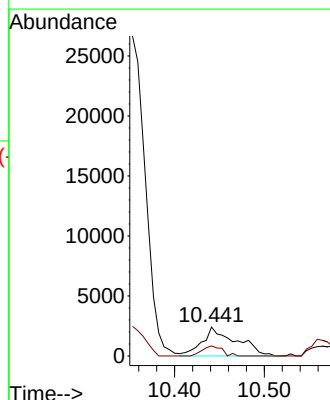
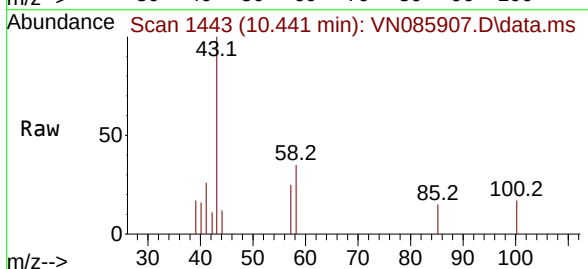
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB166989ZHE#09

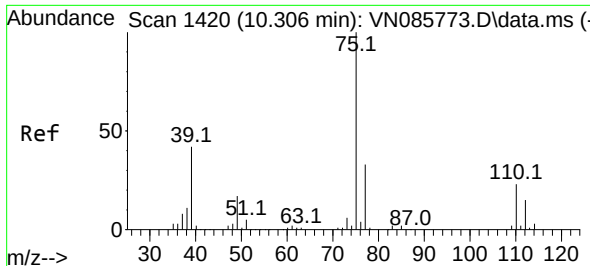
Tgt Ion: 98 Resp: 328665  
Ion Ratio Lower Upper  
98 100  
100 64.6 52.1 78.1



#51  
4-Methyl-2-Pentanone  
Concen: 3.401 ug/l  
RT: 10.441 min Scan# 1443  
Delta R.T. -0.000 min  
Lab File: VN085907.D  
Acq: 06 Mar 2025 18:43

Tgt Ion: 43 Resp: 6263  
Ion Ratio Lower Upper  
43 100  
58 20.4 34.6 52.0#

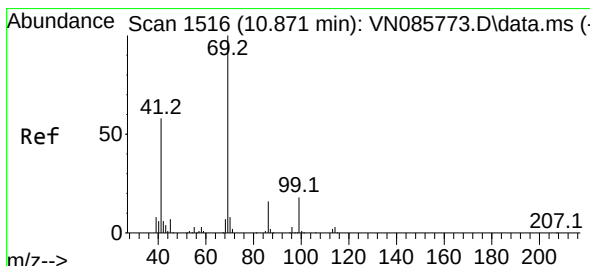
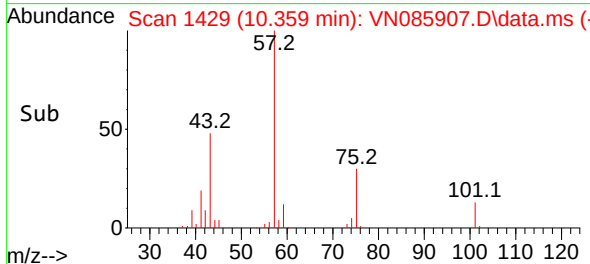
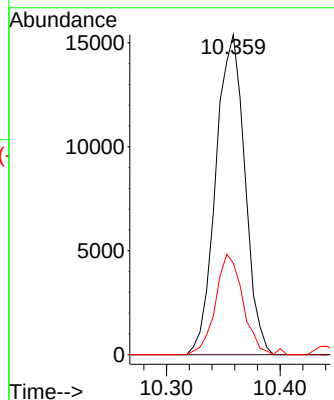
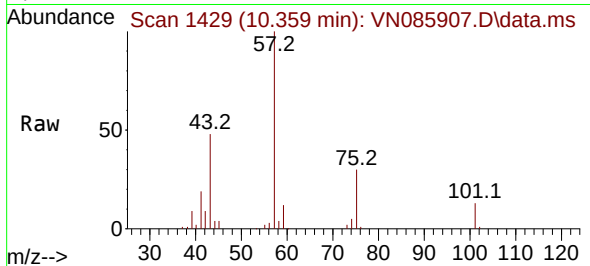




#54  
cis-1,3-Dichloropropene  
Concen: 9.948 ug/l  
RT: 10.359 min Scan# 1429  
Delta R.T. 0.053 min  
Lab File: VN085907.D  
Acq: 06 Mar 2025 18:43

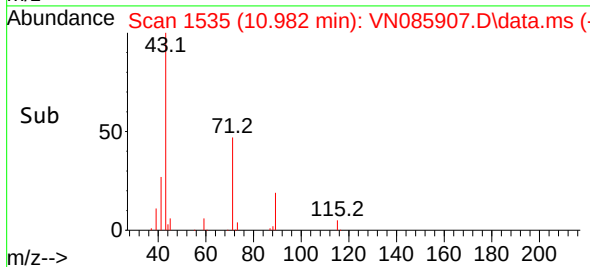
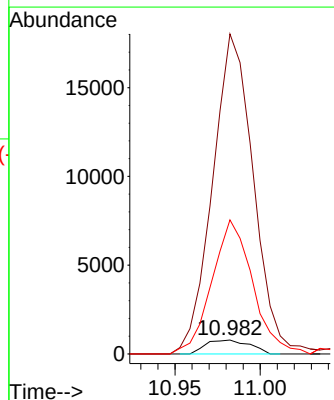
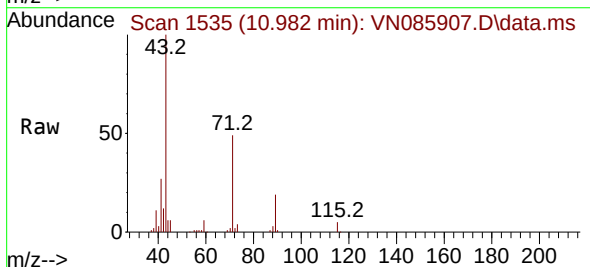
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB166989ZHE#09

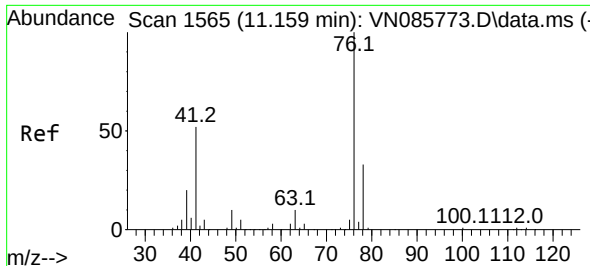
Tgt Ion: 75 Resp: 27334  
Ion Ratio Lower Upper  
75 100  
77 0.0 26.1 39.1#  
39 28.6 33.4 50.0#



#56  
Ethyl methacrylate  
Concen: 1.090 ug/l  
RT: 10.982 min Scan# 1535  
Delta R.T. 0.111 min  
Lab File: VN085907.D  
Acq: 06 Mar 2025 18:43

Tgt Ion: 69 Resp: 1408  
Ion Ratio Lower Upper  
69 100  
41 2146.0 46.0 69.0#  
39 893.3 22.0 33.0#





#57

1,3-Dichloropropane

Concen: 1.241 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.047 min

Lab File: VN085907.D

Acq: 06 Mar 2025 18:43

Instrument :

MSVOA\_N

ClientSampleId :

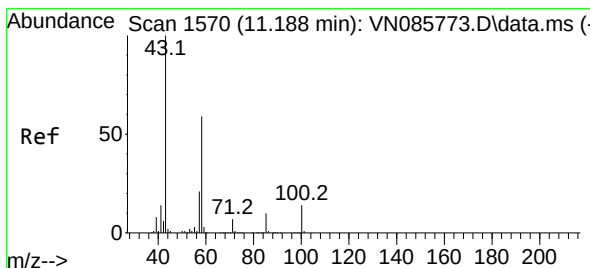
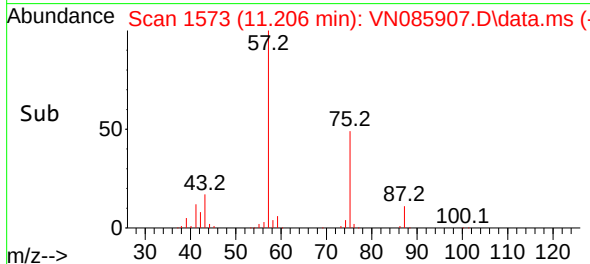
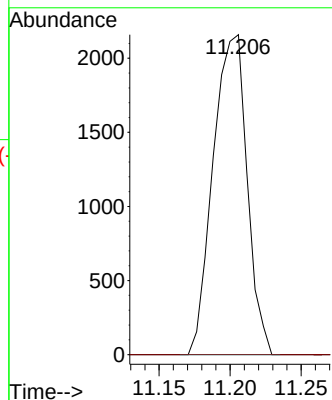
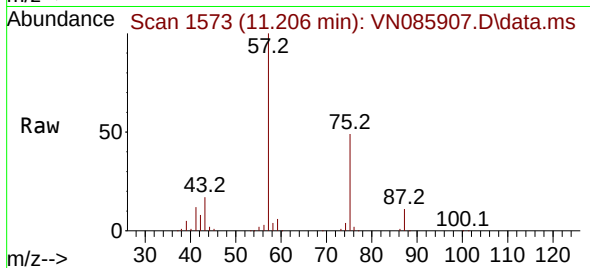
PB166989ZHE#09

Tgt Ion: 76 Resp: 3593

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#



#59

2-Hexanone

Concen: 31.260 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.012 min

Lab File: VN085907.D

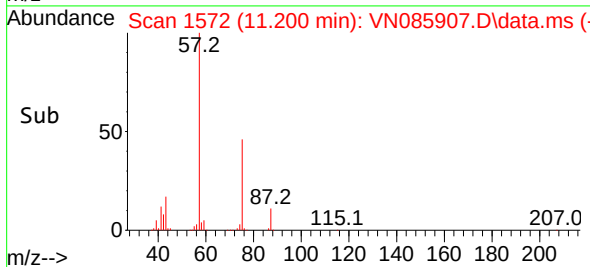
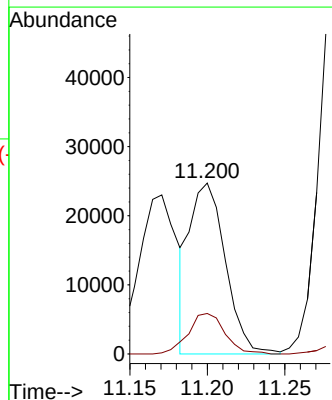
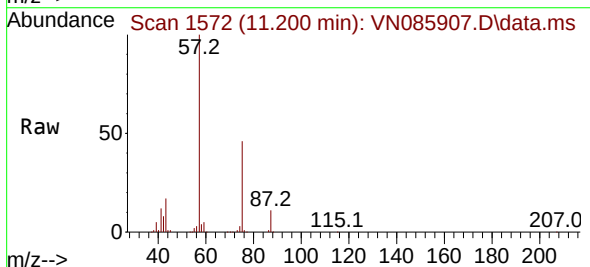
Acq: 06 Mar 2025 18:43

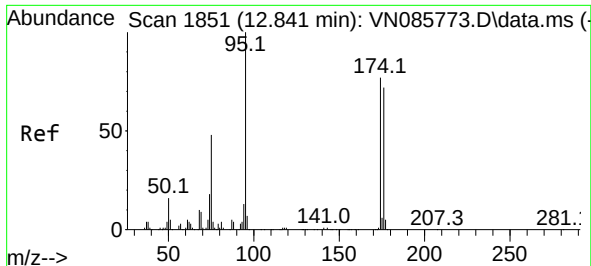
Tgt Ion: 43 Resp: 39603

Ion Ratio Lower Upper

43 100

58 24.3 29.8 89.5#

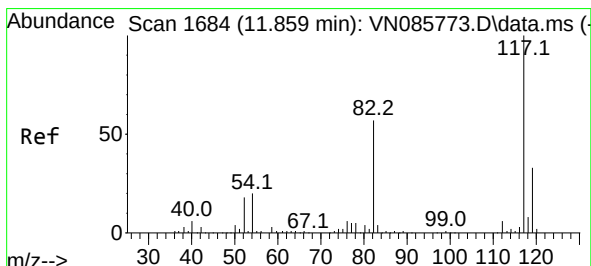
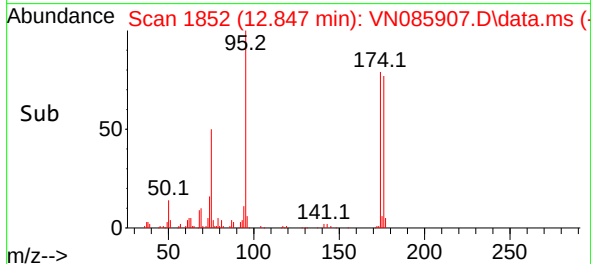
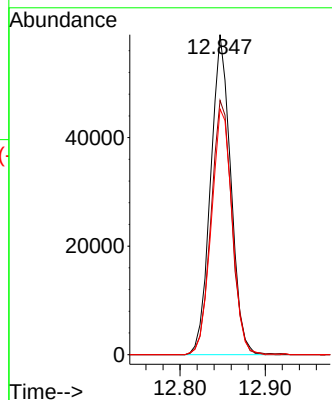
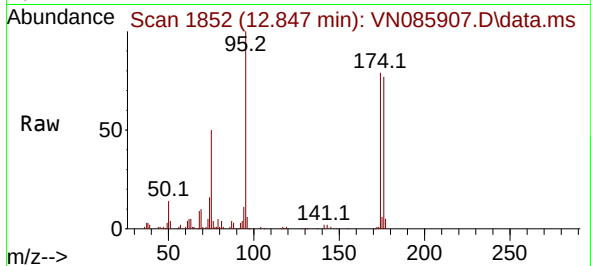




#62  
4-Bromofluorobenzene  
Concen: 49.313 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN085907.D  
Acq: 06 Mar 2025 18:43

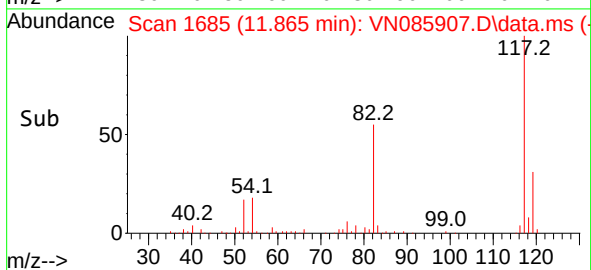
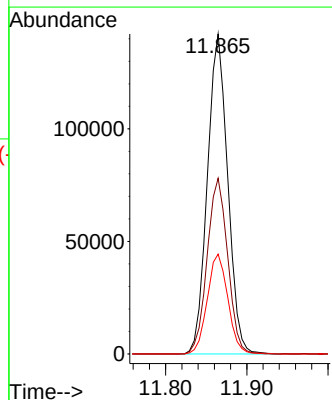
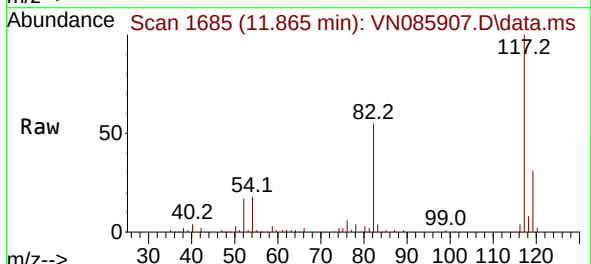
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB166989ZHE#09

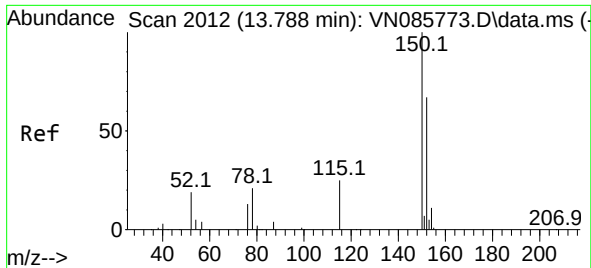
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 96944 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 82.0  | 0.0   | 152.4 |
| 176      | 79.2  | 0.0   | 146.6 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. 0.006 min  
Lab File: VN085907.D  
Acq: 06 Mar 2025 18:43

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 247171 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 54.9  | 45.7  | 68.5   |
| 119      | 31.2  | 26.2  | 39.2   |

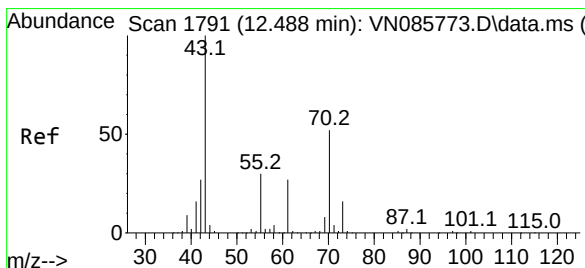
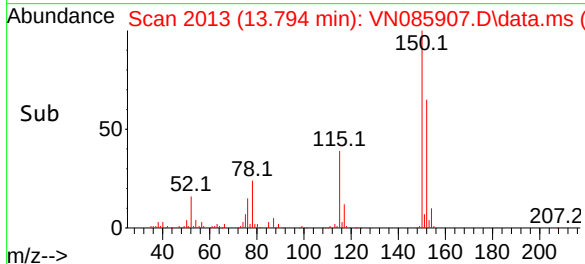
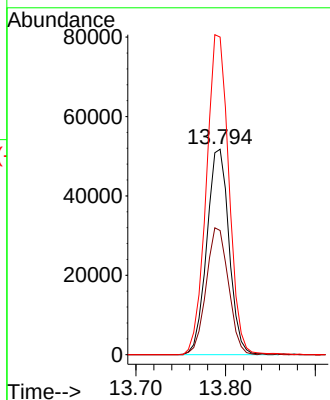
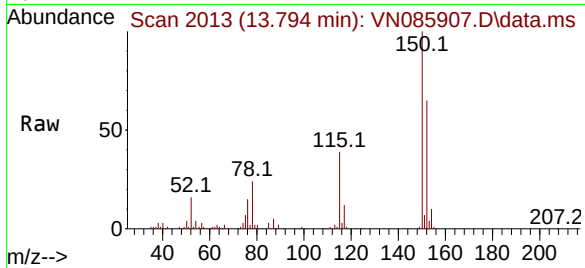




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VN085907.D  
Acq: 06 Mar 2025 18:43

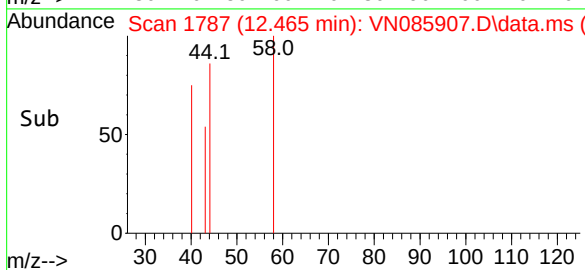
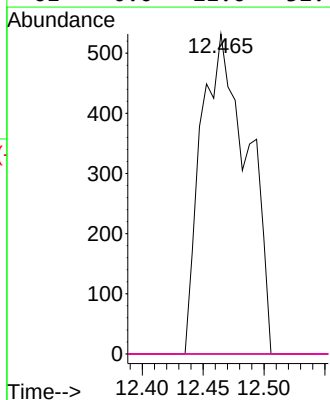
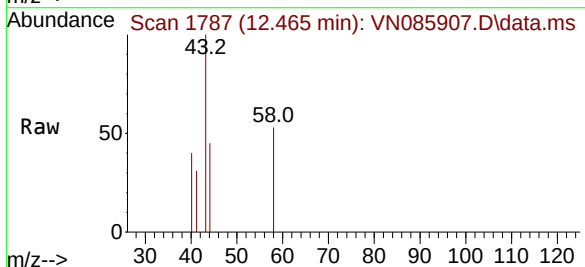
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB166989ZHE#09

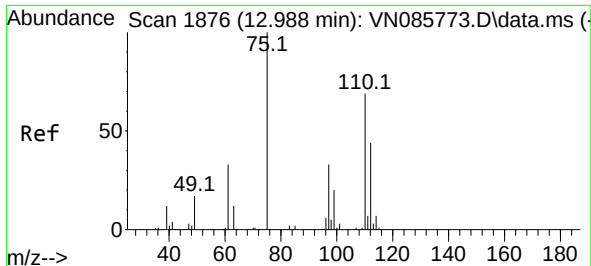
Tgt Ion:152 Resp: 89120  
Ion Ratio Lower Upper  
152 100  
115 61.9 30.4 91.3  
150 157.6 0.0 345.4



#74  
N-ethyl acetate  
Concen: 0.660 ug/l  
RT: 12.465 min Scan# 1787  
Delta R.T. -0.024 min  
Lab File: VN085907.D  
Acq: 06 Mar 2025 18:43

Tgt Ion: 43 Resp: 1421  
Ion Ratio Lower Upper  
43 100  
70 0.0 41.0 61.4#  
55 0.0 24.6 36.8#  
61 0.0 21.6 32.4#

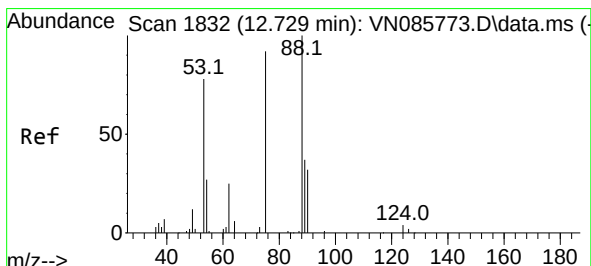
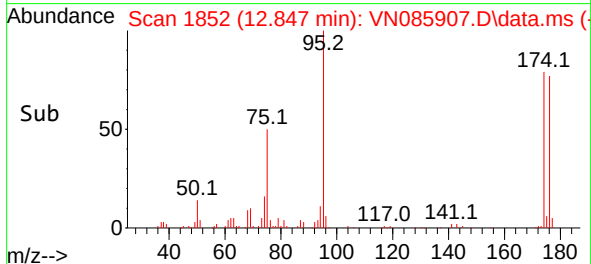
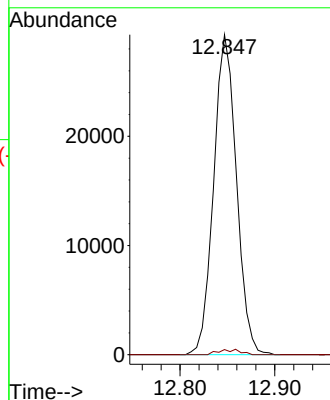
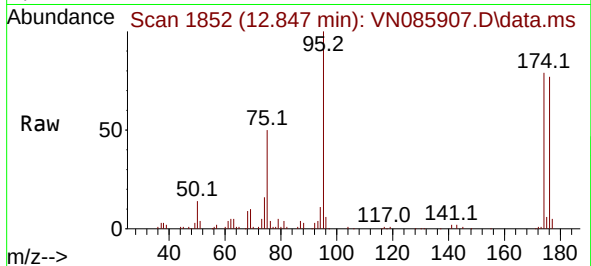




#76  
1,2,3-Trichloropropane  
Concen: 24.715 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.141 min  
Lab File: VN085907.D  
Acq: 06 Mar 2025 18:43

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB166989ZHE#09

Tgt Ion: 75 Resp: 48928  
Ion Ratio Lower Upper  
75 100  
77 1.5 100.0 300.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 72.114 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.118 min  
Lab File: VN085907.D  
Acq: 06 Mar 2025 18:43

Tgt Ion: 75 Resp: 48928  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.2 111.4#  
89 0.0 34.9 52.3#

