

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN020525\  
 Data File : VN085668.D  
 Acq On : 05 Feb 2025 10:46  
 Operator : JC\MD  
 Sample : VN0205WBL01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Feb 06 00:37:02 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

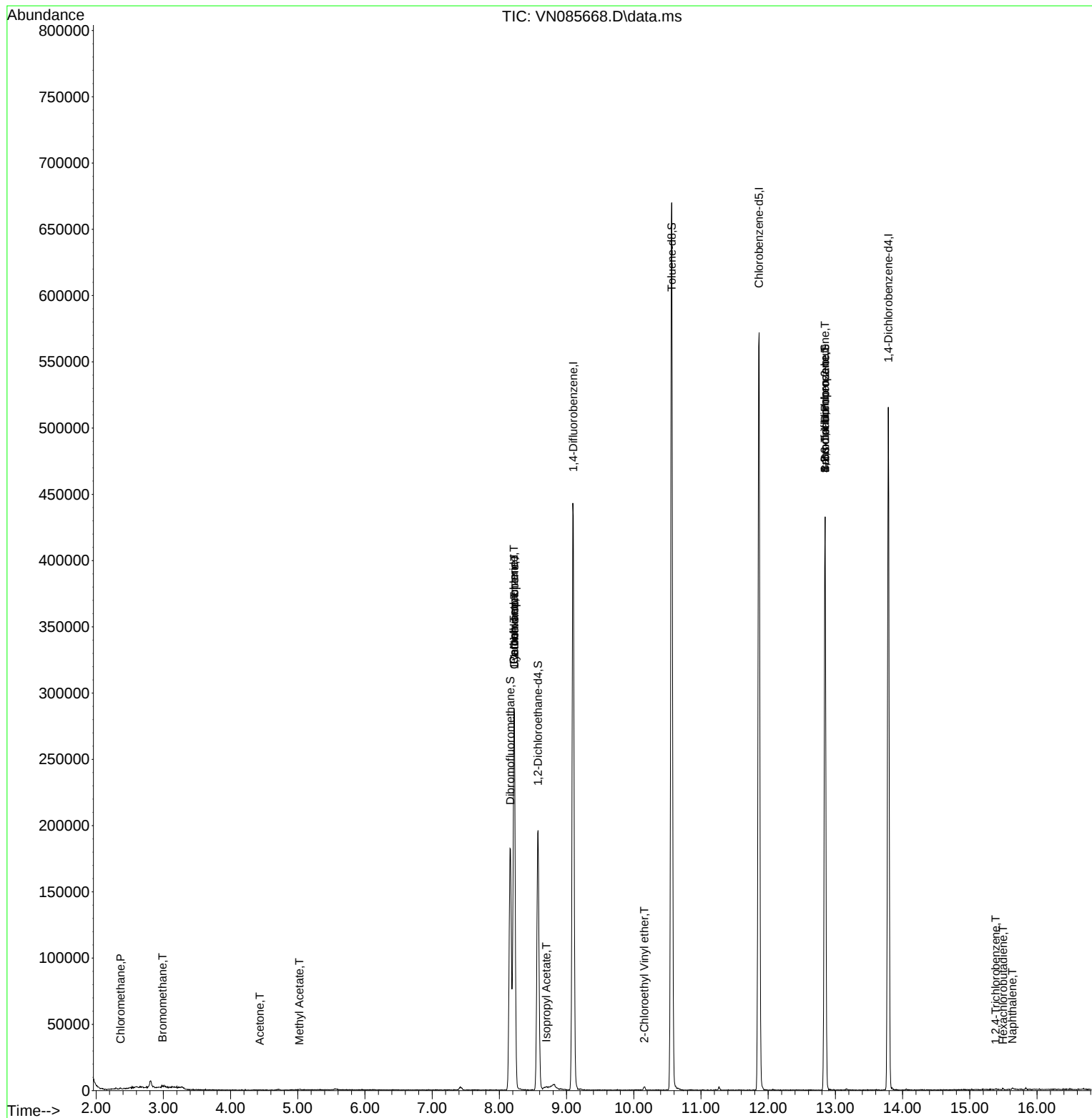
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.218  | 168   | 203069   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 383052   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 334435   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152   | 137972   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 156825   | 47.842   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 95.680%  |
| 35) Dibromofluoromethane      | 8.165  | 113   | 134648   | 50.668   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 101.340% |
| 50) Toluene-d8                | 10.565 | 98    | 466612   | 49.420   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 98.840%  |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 145057   | 44.912   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | =      | 89.820%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 2.365  | 50    | 654      | 0.220    | ug/l # | 41       |
| 5) Bromomethane               | 2.989  | 94    | 702      | 0.388    | ug/l   | 83       |
| 16) Acetone                   | 4.436  | 43    | 232      | 0.219    | ug/l # | 45       |
| 18) Methyl Acetate            | 5.024  | 43    | 735      | 0.228    | ug/l # | 52       |
| 31) Cyclohexane               | 8.224  | 56    | 5010     | 1.204    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 18013    | 4.830    | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.218  | 117   | 21784    | 5.102    | ug/l # | 17       |
| 43) Isopropyl Acetate         | 8.700  | 43    | 2023     | 0.335    | ug/l # | 55       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63    | 1260     | 0.773    | ug/l # | 86       |
| 71) Bromoform                 | 12.847 | 173   | 1290     | 0.670    | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 76256    | 27.192   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 76256    | 73.571   | ug/l # | 3        |
| 93) 1,2,4-Trichlorobenzene    | 15.388 | 180   | 422      | 0.203    | ug/l # | 82       |
| 94) Hexachlorobutadiene       | 15.494 | 225   | 307      | 0.278    | ug/l   | 85       |
| 95) Naphthalene               | 15.635 | 128   | 1847     | 0.298    | ug/l # | 69       |
| -----                         |        |       |          |          |        |          |

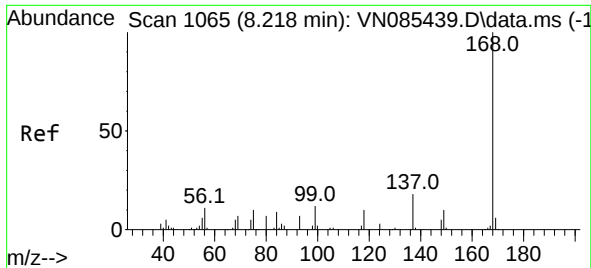
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 4 Sample Multiplier: 1

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MSVOA\_N  
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Quant Time: Feb 06 00:37:02 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

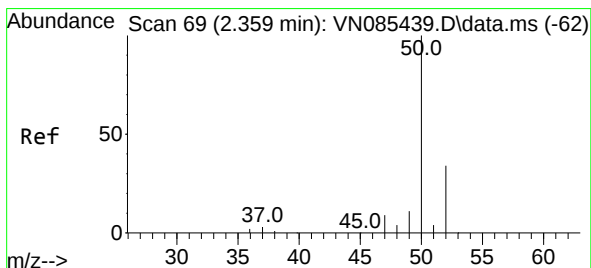
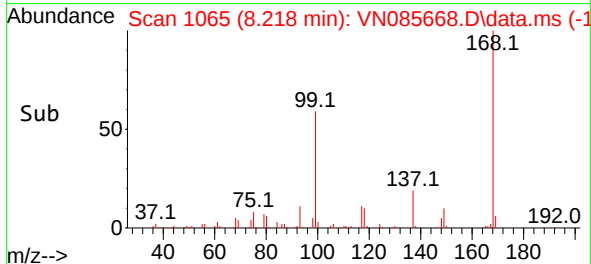
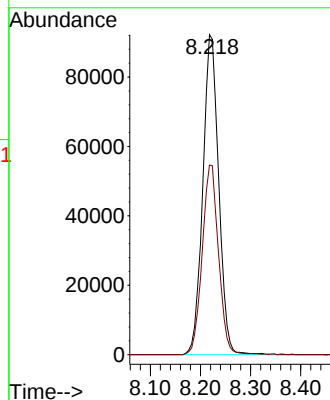
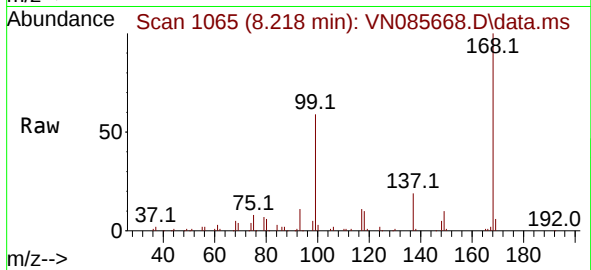




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.218 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN085668.D  
Acq: 05 Feb 2025 10:46

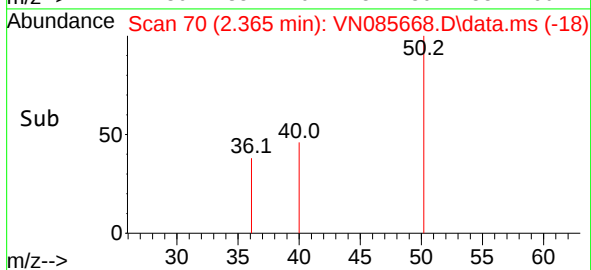
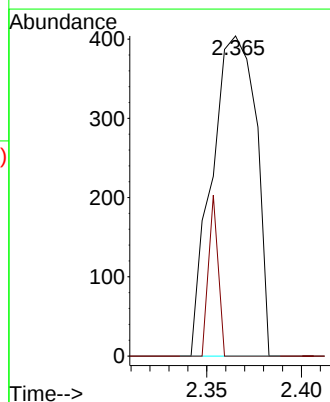
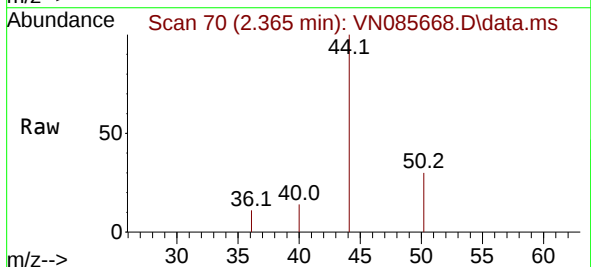
Instrument :  
MSVOA\_N  
ClientSampleId :

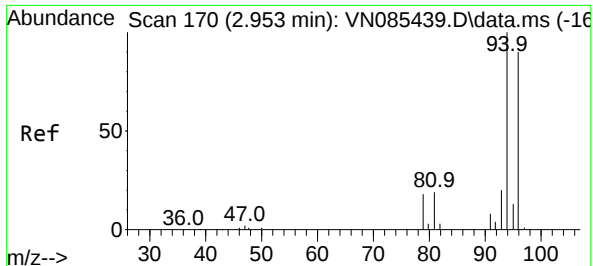
Tgt Ion:168 Resp: 203069  
Ion Ratio Lower Upper  
168 100  
99 59.2 53.6 80.4



#3  
Chloromethane  
Concen: 0.220 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN085668.D  
Acq: 05 Feb 2025 10:46

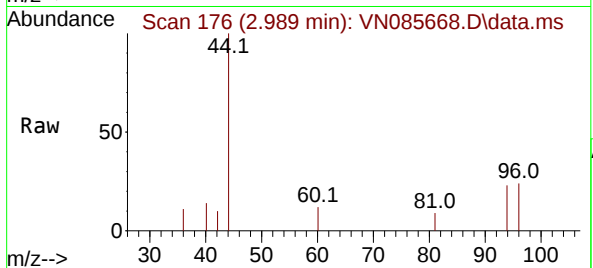
Tgt Ion: 50 Resp: 654  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.0 40.6#



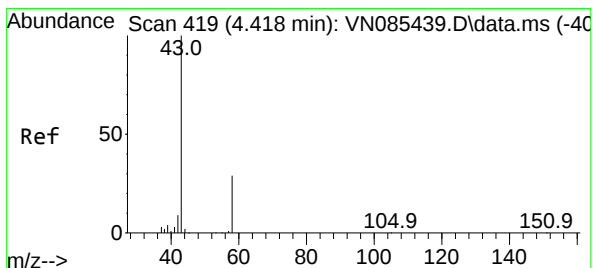
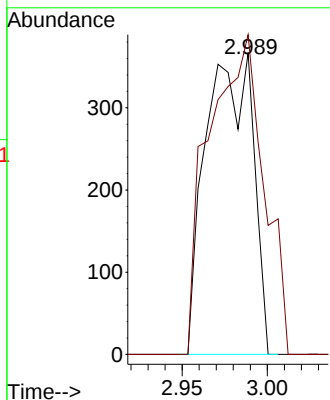
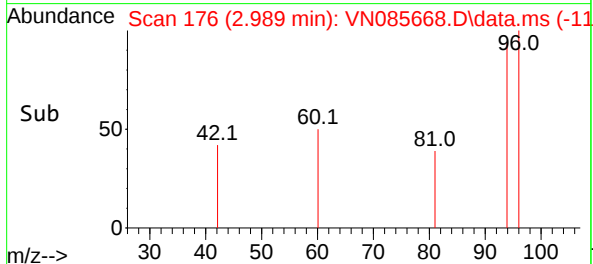


#5  
Bromomethane  
Concen: 0.388 ug/l  
RT: 2.989 min Scan# 11  
Delta R.T. 0.035 min  
Lab File: VN085668.D  
Acq: 05 Feb 2025 10:46

Instrument :  
MSVOA\_N  
ClientSampleId :

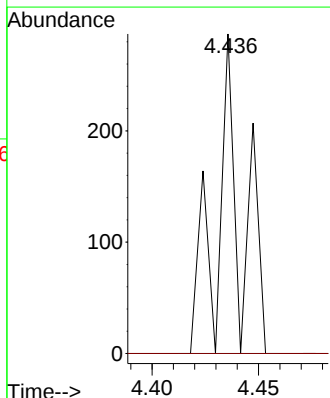
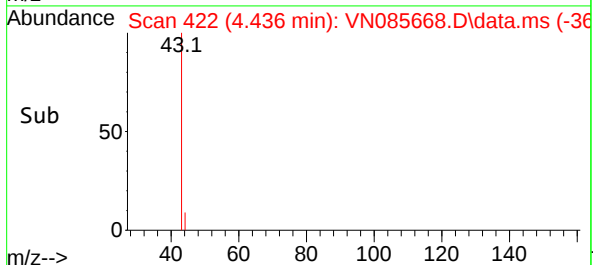
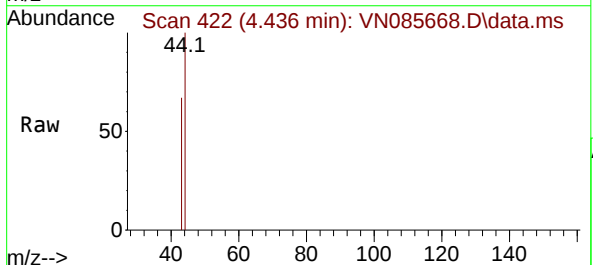


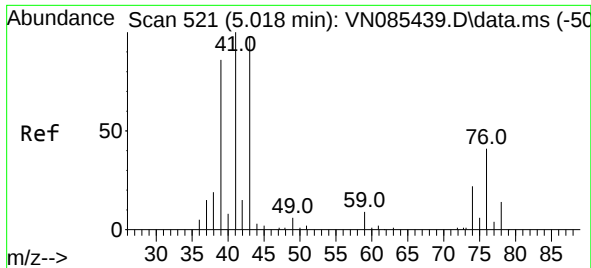
Tgt Ion: 94 Resp: 702  
Ion Ratio Lower Upper  
94 100  
96 106.0 71.8 107.6



#16  
Acetone  
Concen: 0.219 ug/l  
RT: 4.436 min Scan# 422  
Delta R.T. 0.018 min  
Lab File: VN085668.D  
Acq: 05 Feb 2025 10:46

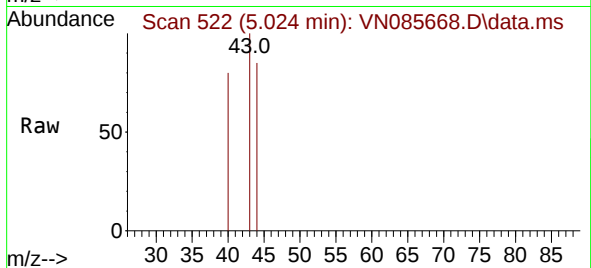
Tgt Ion: 43 Resp: 232  
Ion Ratio Lower Upper  
43 100  
58 0.0 23.8 35.6#



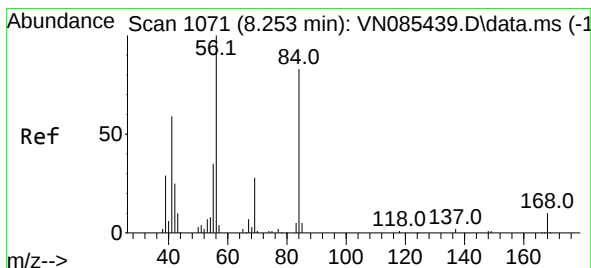
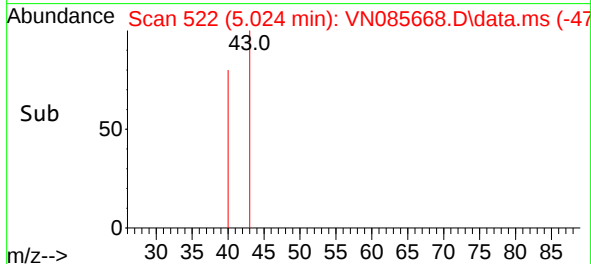
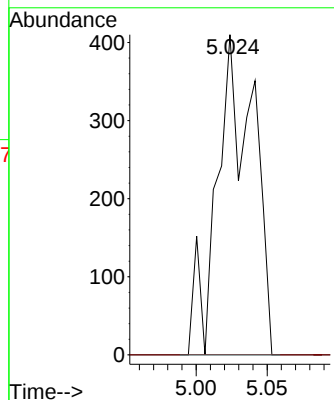


#18  
Methyl Acetate  
Concen: 0.228 ug/l  
RT: 5.024 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN085668.D  
Acq: 05 Feb 2025 10:46

Instrument :  
MSVOA\_N  
ClientSampleId :

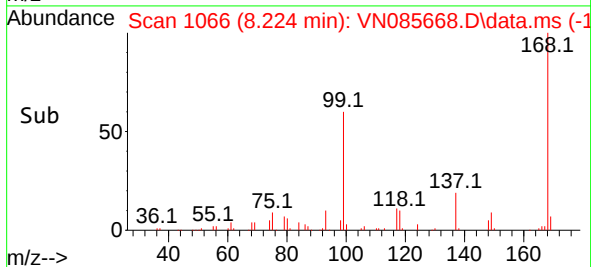
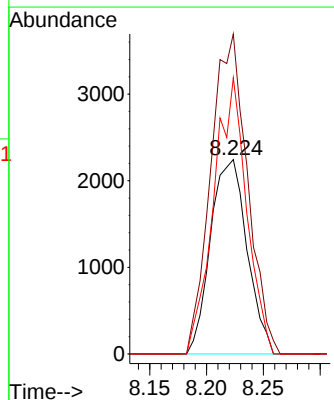
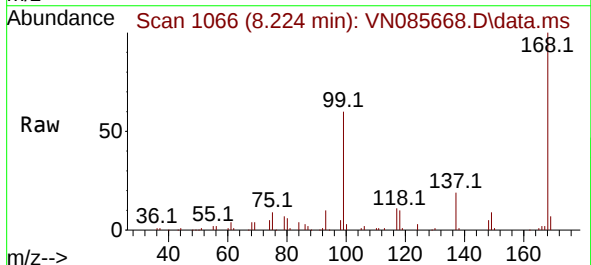


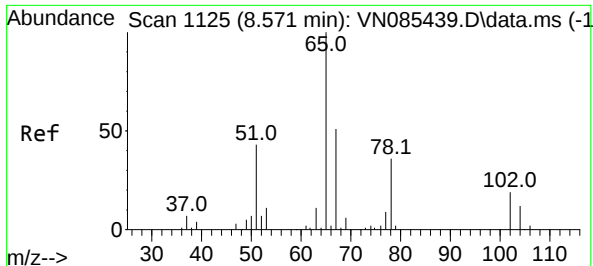
Tgt Ion: 43 Resp: 735  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.6 28.0#



#31  
Cyclohexane  
Concen: 1.204 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.029 min  
Lab File: VN085668.D  
Acq: 05 Feb 2025 10:46

Tgt Ion: 56 Resp: 5010  
Ion Ratio Lower Upper  
56 100  
69 164.6 22.2 33.4#  
84 142.0 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 47.842 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085668.D

Acq: 05 Feb 2025 10:46

Instrument :

MSVOA\_N

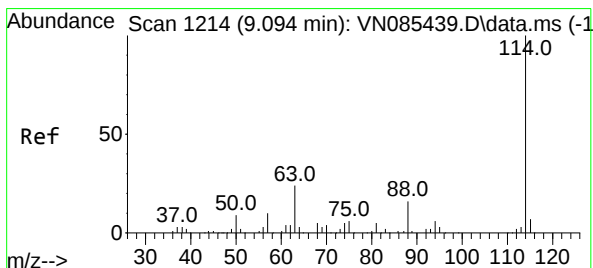
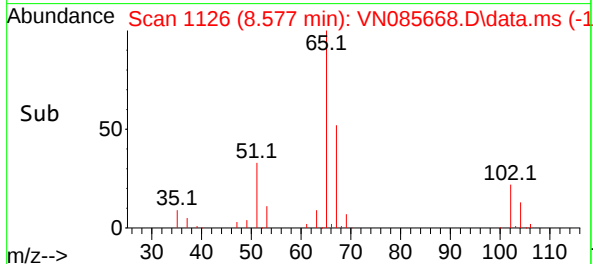
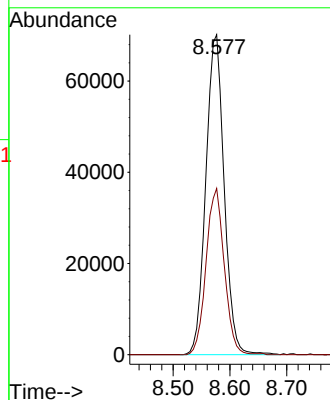
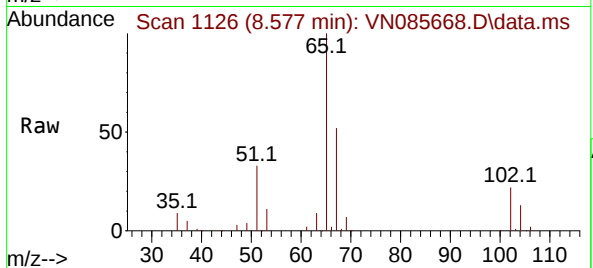
ClientSampleId :

Tgt Ion: 65 Resp: 156825

Ion Ratio Lower Upper

65 100

67 51.6 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: VN085668.D

Acq: 05 Feb 2025 10:46

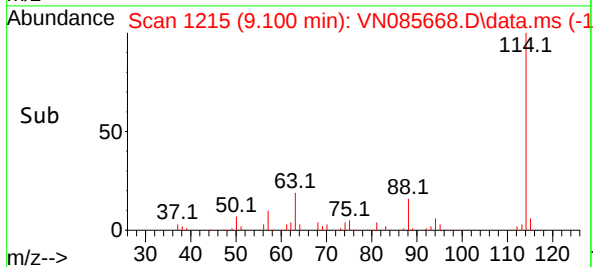
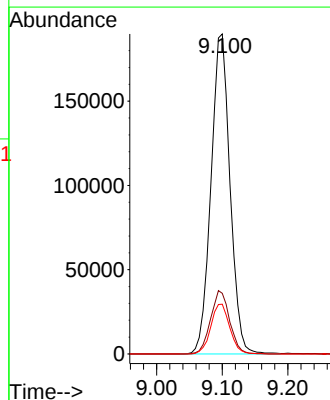
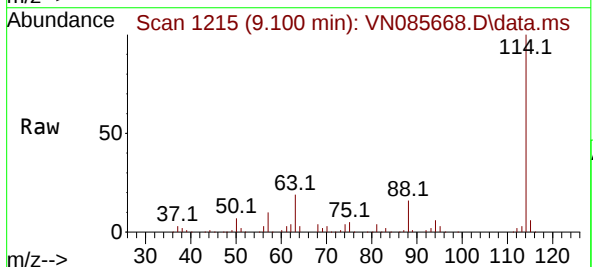
Tgt Ion: 114 Resp: 383052

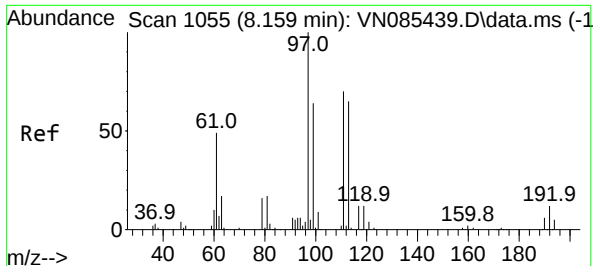
Ion Ratio Lower Upper

114 100

63 19.0 0.0 47.6

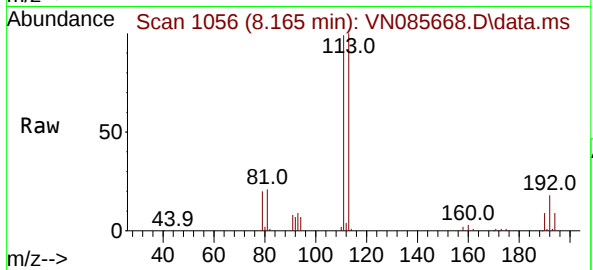
88 15.6 0.0 32.6



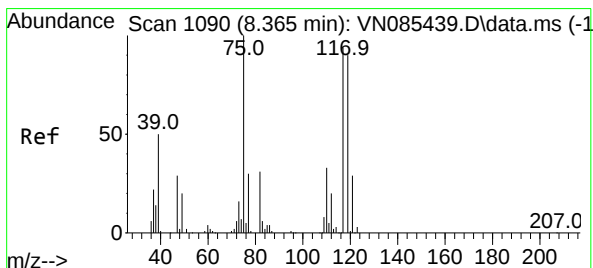
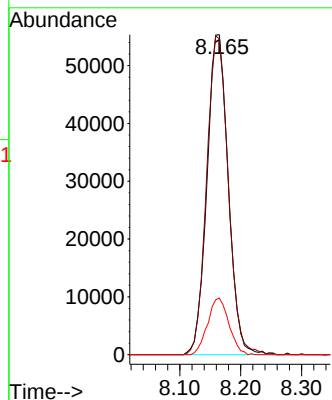
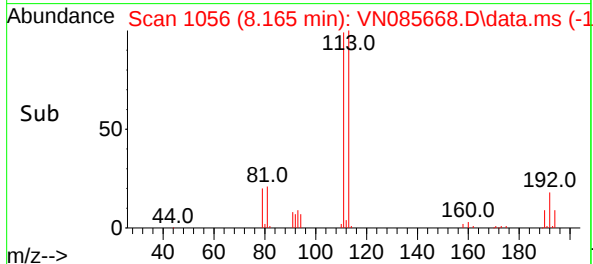


#35  
Dibromofluoromethane  
Concen: 50.668 ug/l  
RT: 8.165 min Scan# 1056  
Delta R.T. 0.006 min  
Lab File: VN085668.D  
Acq: 05 Feb 2025 10:46

Instrument :  
MSVOA\_N  
ClientSampleId :

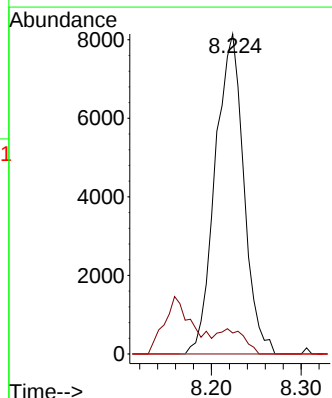
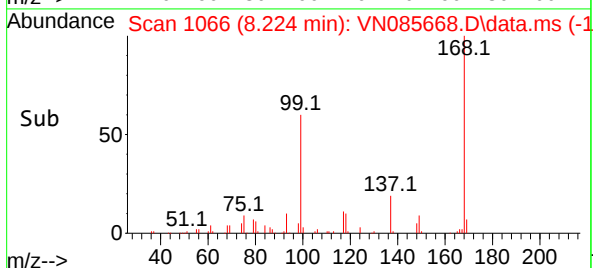
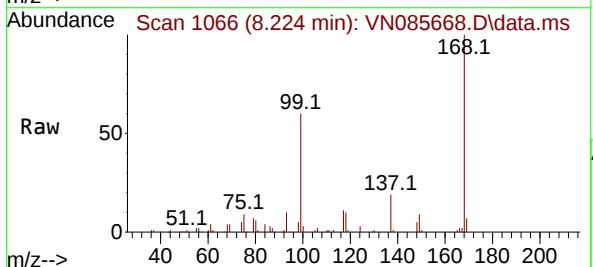


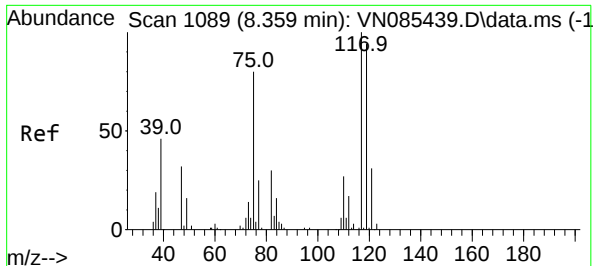
Tgt Ion:113 Resp: 134648  
Ion Ratio Lower Upper  
113 100  
111 100.9 82.7 124.1  
192 17.6 14.3 21.5



#36  
1,1-Dichloropropene  
Concen: 4.830 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.141 min  
Lab File: VN085668.D  
Acq: 05 Feb 2025 10:46

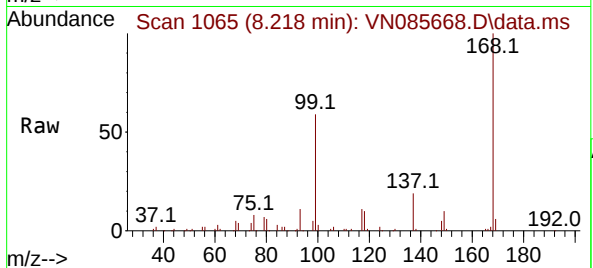
Tgt Ion: 75 Resp: 18013  
Ion Ratio Lower Upper  
75 100  
110 7.3 16.5 49.5#  
77 0.0 24.4 36.6#



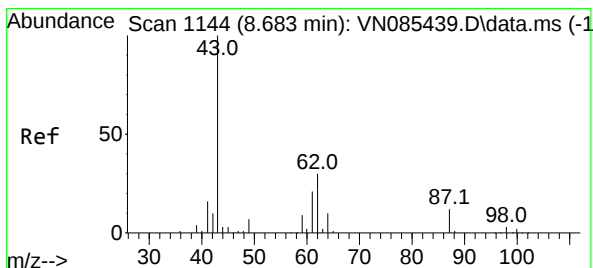
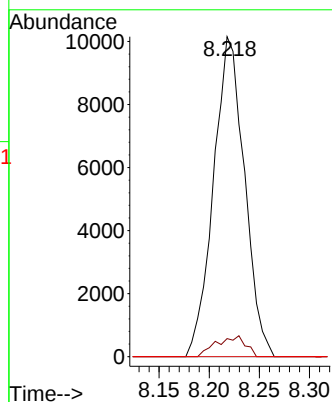
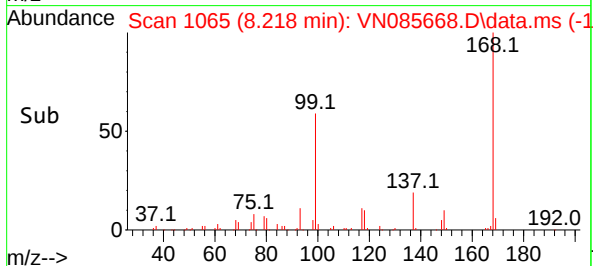


#38  
Carbon Tetrachloride  
Concen: 5.102 ug/l  
RT: 8.218 min Scan# 1107  
Delta R.T. -0.141 min  
Lab File: VN085668.D  
Acq: 05 Feb 2025 10:46

Instrument :  
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ClientSampleId :

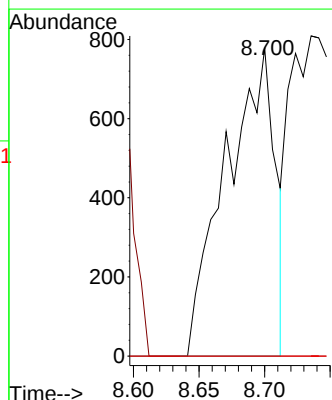
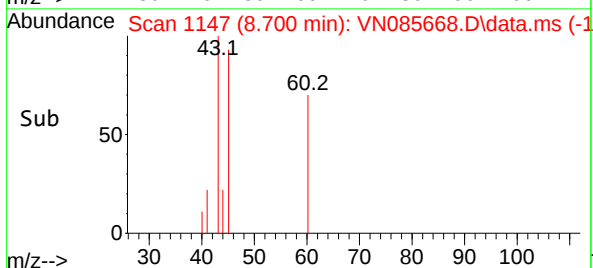
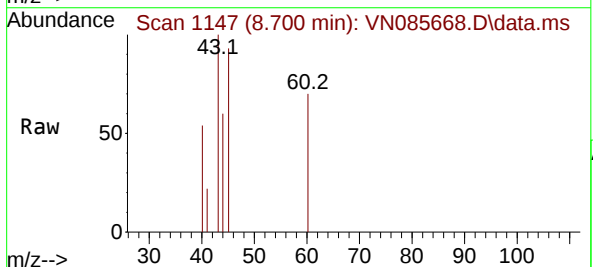


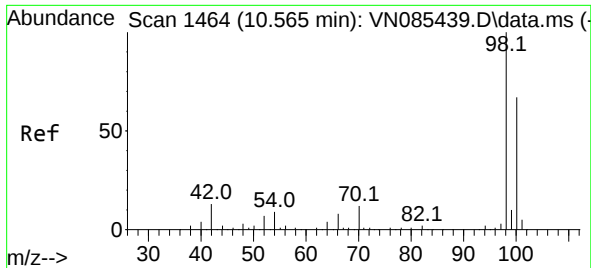
Tgt Ion:117 Resp: 21784  
Ion Ratio Lower Upper  
117 100  
119 5.6 75.4 113.2#  
121 0.0 24.6 37.0#



#43  
Isopropyl Acetate  
Concen: 0.335 ug/l  
RT: 8.700 min Scan# 1147  
Delta R.T. 0.018 min  
Lab File: VN085668.D  
Acq: 05 Feb 2025 10:46

Tgt Ion: 43 Resp: 2023  
Ion Ratio Lower Upper  
43 100  
61 0.0 20.7 31.1#  
87 0.0 9.8 14.8#

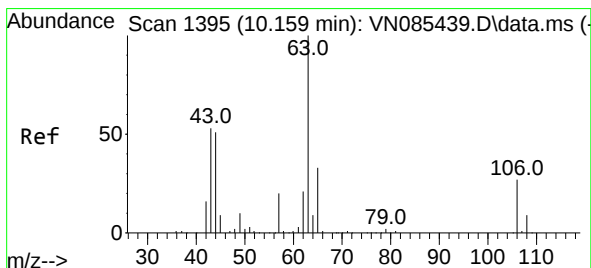
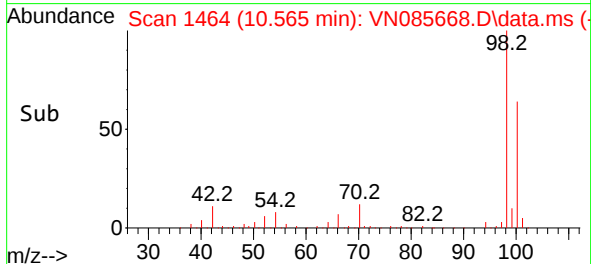
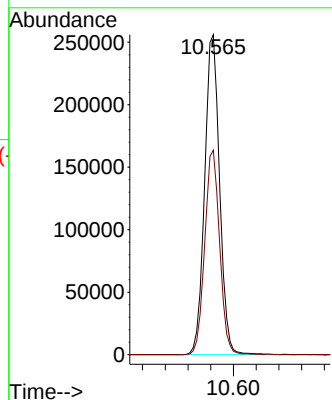
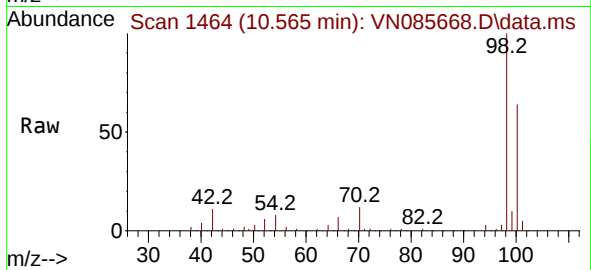




#50  
Toluene-d8  
Concen: 49.420 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN085668.D  
Acq: 05 Feb 2025 10:46

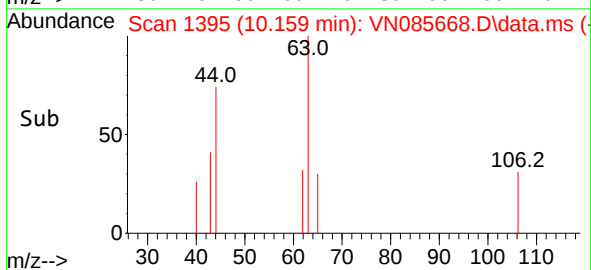
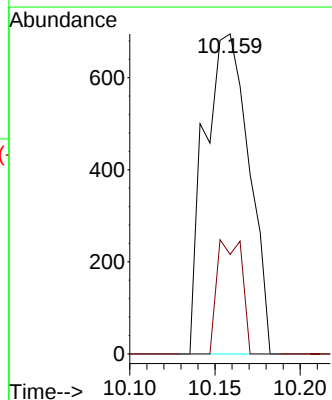
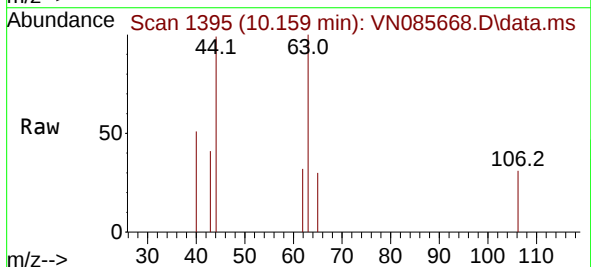
Instrument :  
MSVOA\_N  
ClientSampleId :

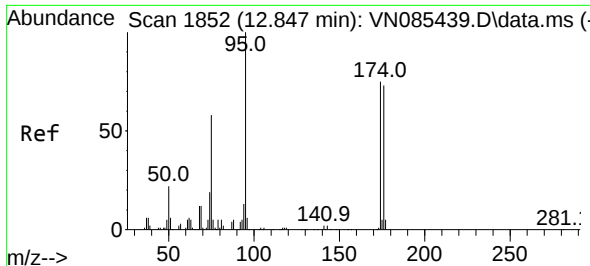
Tgt Ion: 98 Resp: 466612  
Ion Ratio Lower Upper  
98 100  
100 63.7 52.2 78.4



#58  
2-Chloroethyl Vinyl ether  
Concen: 0.773 ug/l  
RT: 10.159 min Scan# 1395  
Delta R.T. -0.000 min  
Lab File: VN085668.D  
Acq: 05 Feb 2025 10:46

Tgt Ion: 63 Resp: 1260  
Ion Ratio Lower Upper  
63 100  
106 19.8 21.6 32.4#

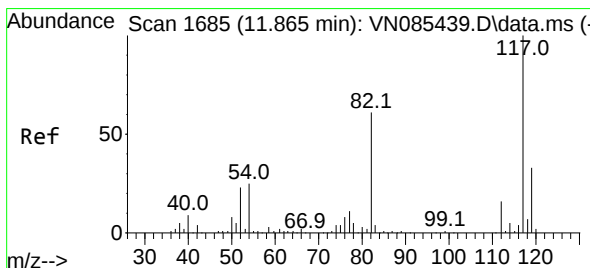
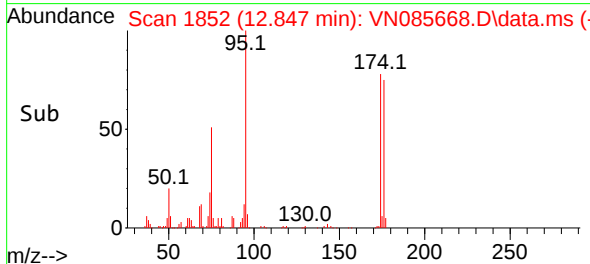
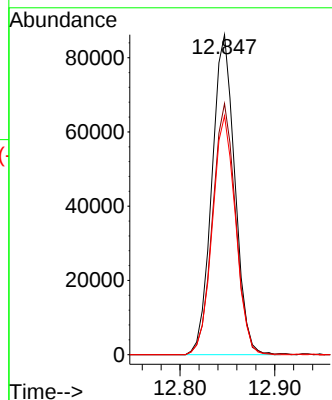
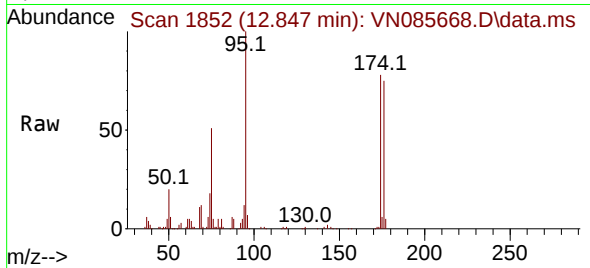




#62  
4-Bromofluorobenzene  
Concen: 44.912 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN085668.D  
Acq: 05 Feb 2025 10:46

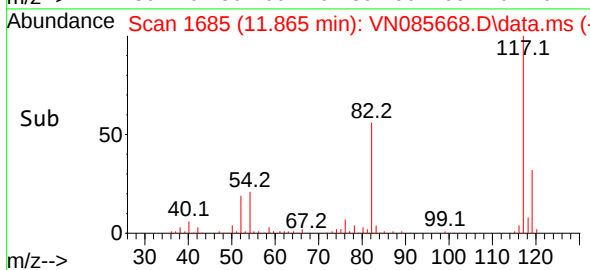
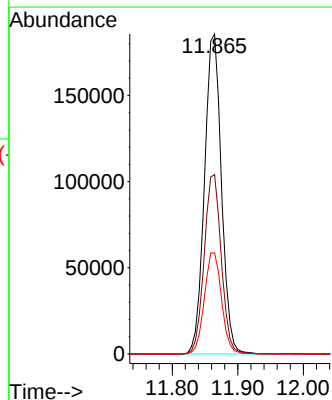
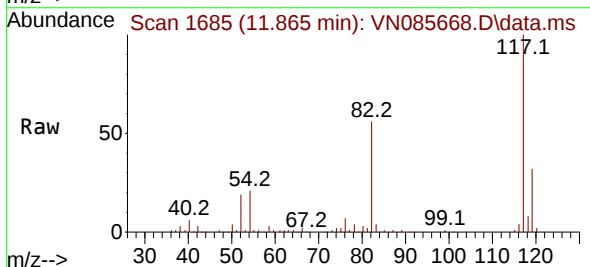
Instrument :  
MSVOA\_N  
ClientSampleId :

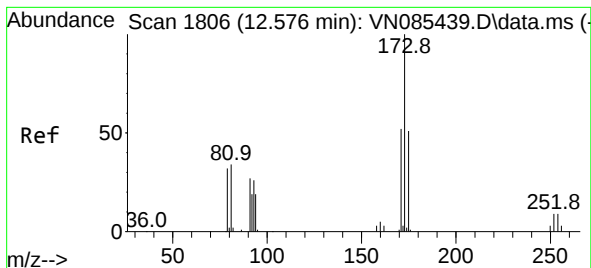
Tgt Ion: 95 Resp: 145057  
Ion Ratio Lower Upper  
95 100  
174 79.2 0.0 145.0  
176 75.4 0.0 142.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN085668.D  
Acq: 05 Feb 2025 10:46

Tgt Ion: 117 Resp: 334435  
Ion Ratio Lower Upper  
117 100  
82 56.1 48.6 72.8  
119 31.6 26.6 39.8





#71

Bromoform

Concen: 0.670 ug/l

RT: 12.847 min Scan# 1806

Delta R.T. 0.270 min

Lab File: VN085668.D

Acq: 05 Feb 2025 10:46

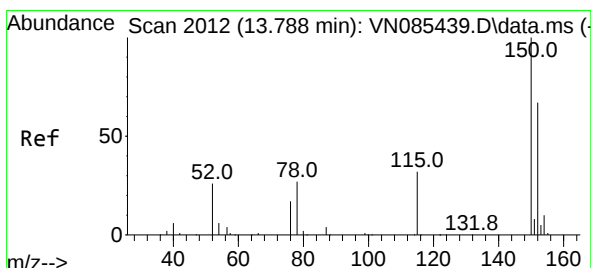
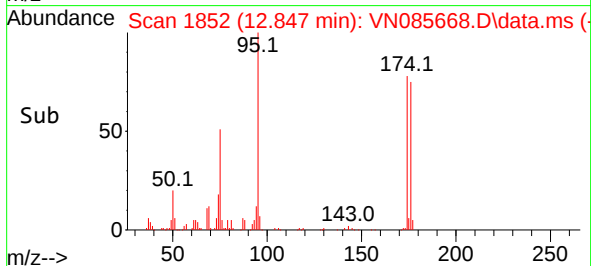
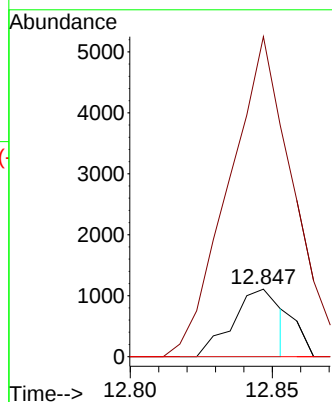
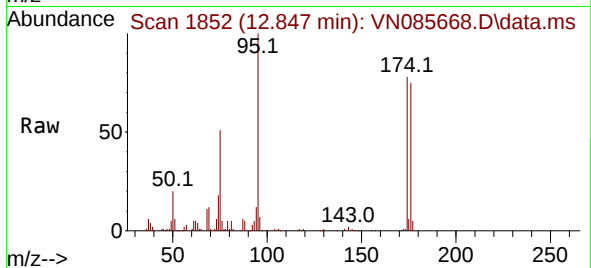
Instrument :

MSVOA\_N

ClientSampleId :

Tgt Ion:173 Resp: 1290

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 173 | 100   |       |       |
| 175 | 515.4 | 24.4  | 73.2# |
| 254 | 0.0   | 0.0   | 0.0   |



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

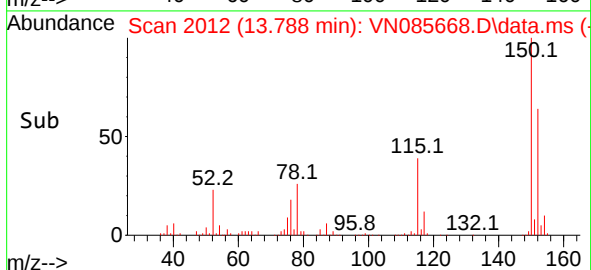
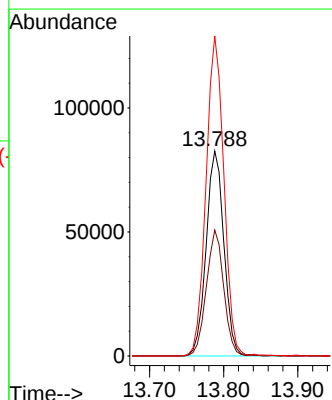
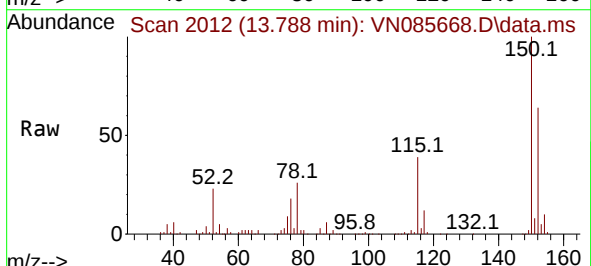
Delta R.T. -0.000 min

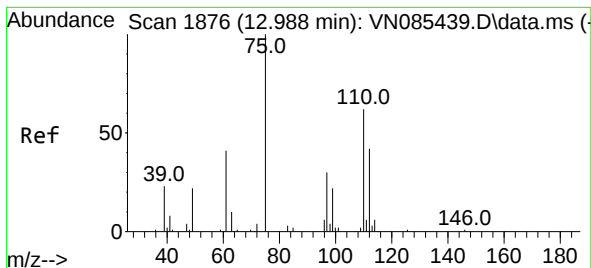
Lab File: VN085668.D

Acq: 05 Feb 2025 10:46

Tgt Ion:152 Resp: 137972

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 60.1  | 31.1  | 93.3  |
| 150 | 156.4 | 0.0   | 343.6 |





#76

1,2,3-Trichloropropane

Concen: 27.192 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN085668.D

Acq: 05 Feb 2025 10:46

Instrument :

MSVOA\_N

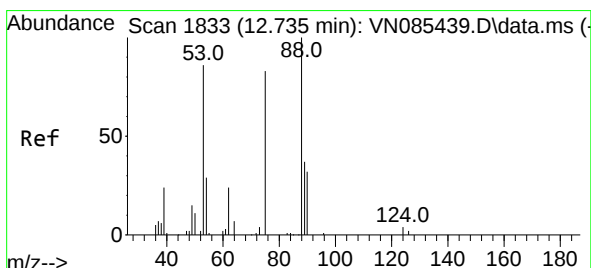
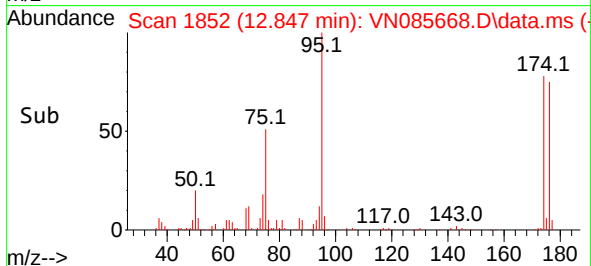
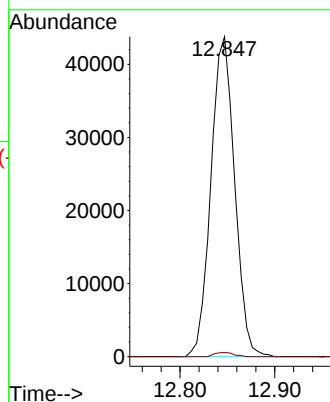
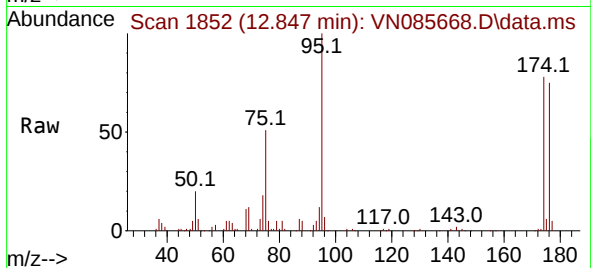
ClientSampleId :

Tgt Ion: 75 Resp: 76256

Ion Ratio Lower Upper

75 100

77 1.1 109.7 329.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.571 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN085668.D

Acq: 05 Feb 2025 10:46

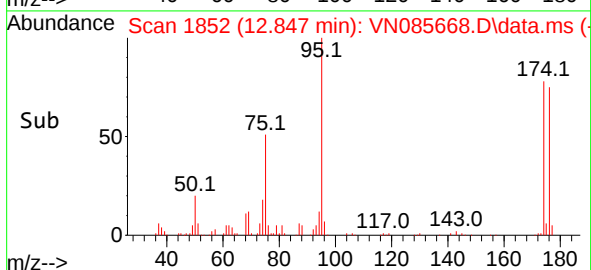
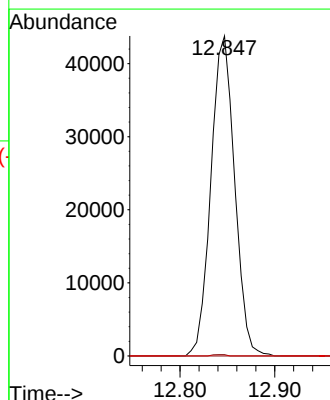
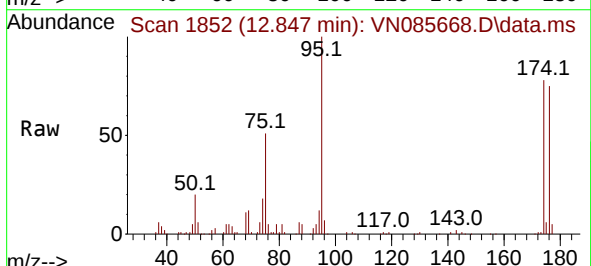
Tgt Ion: 75 Resp: 76256

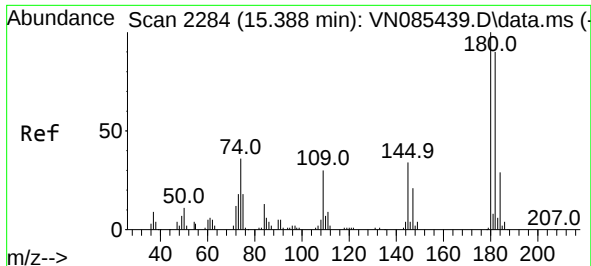
Ion Ratio Lower Upper

75 100

53 0.2 95.6 143.4#

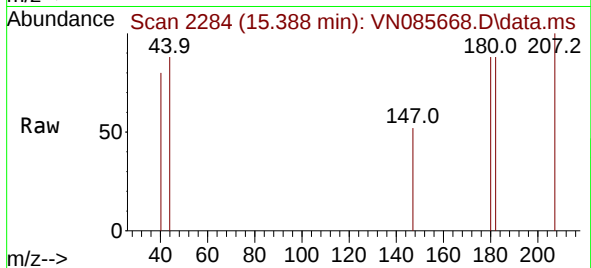
89 0.0 37.0 55.6#



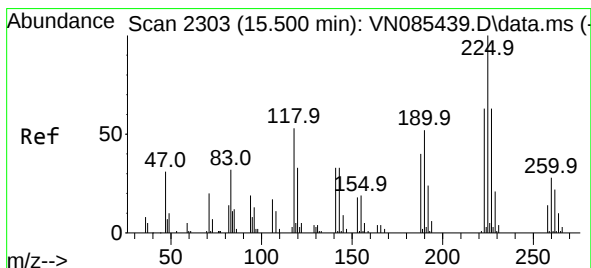
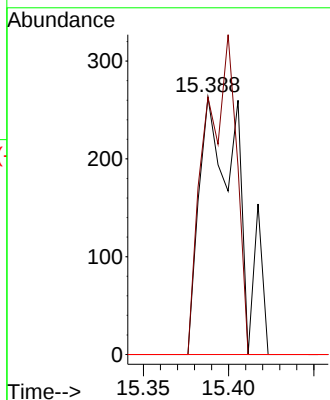
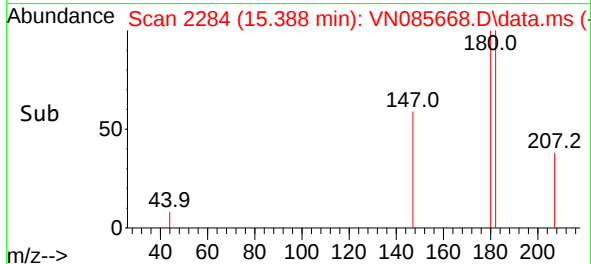


#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.203 ug/l  
 RT: 15.388 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VN085668.D  
 Acq: 05 Feb 2025 10:46

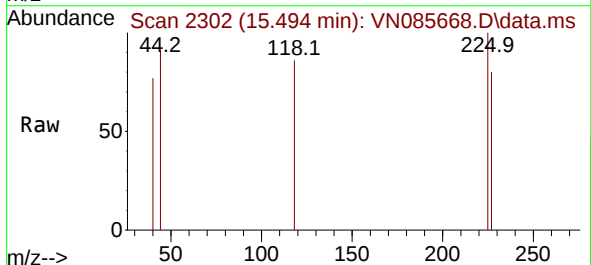
Instrument :  
 MSVOA\_N  
 ClientSampleId :



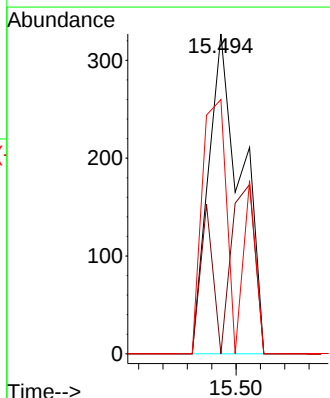
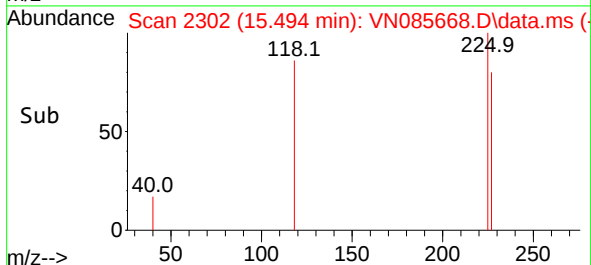
Tgt Ion:180 Resp: 422  
 Ion Ratio Lower Upper  
 180 100  
 182 97.6 46.8 140.3  
 145 0.0 16.0 48.0#

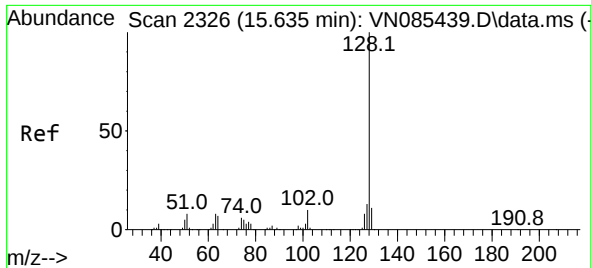


#94  
 Hexachlorobutadiene  
 Concen: 0.278 ug/l  
 RT: 15.494 min Scan# 2302  
 Delta R.T. -0.006 min  
 Lab File: VN085668.D  
 Acq: 05 Feb 2025 10:46



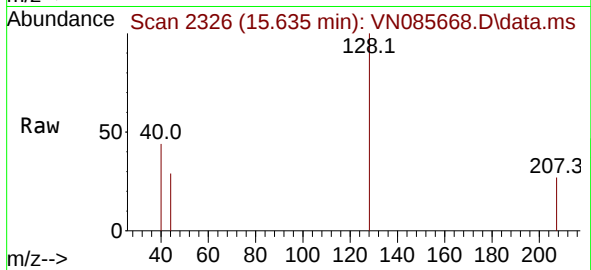
Tgt Ion:225 Resp: 307  
 Ion Ratio Lower Upper  
 225 100  
 223 55.0 30.7 92.1  
 227 78.2 30.9 92.5





#95  
Naphthalene  
Concen: 0.298 ug/l  
RT: 15.635 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN085668.D  
Acq: 05 Feb 2025 10:46

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion:128 Resp: 1847  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 16.0#  
129 0.0 8.8 13.2#

