

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031925\  
 Data File : VN086021.D  
 Acq On : 19 Mar 2025 20:03  
 Operator : JC\MD  
 Sample : Q1604-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FRAC-TANK-N45878

Quant Time: Mar 20 01:38:20 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031825W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 19 03:20:56 2025  
 Response via : Initial Calibration

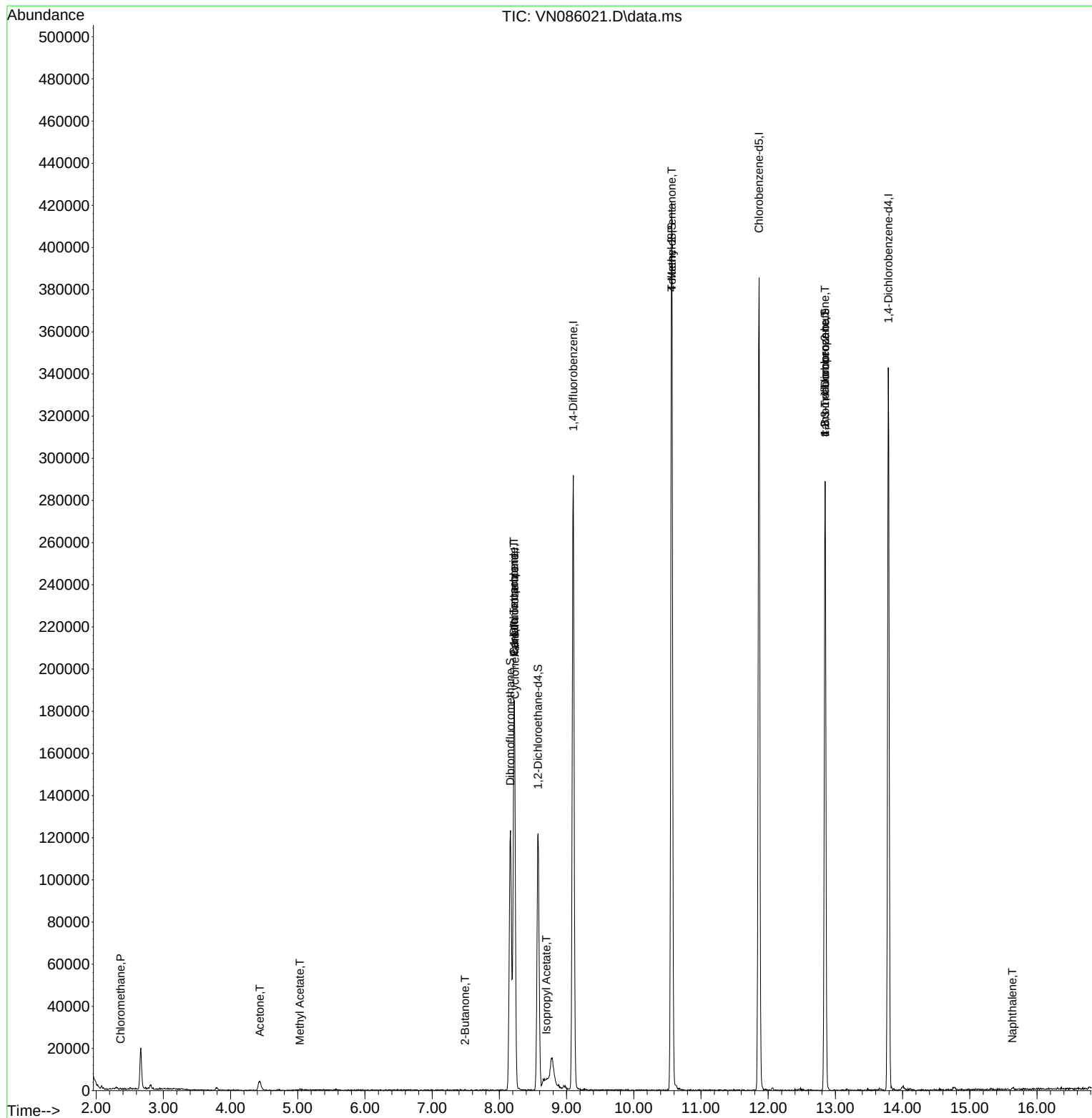
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 136693   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 249028   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 224312   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152   | 97536    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 105468   | 56.346   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 112.700% |
| 35) Dibromofluoromethane      | 8.165  | 113   | 89064    | 51.240   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 102.480% |
| 50) Toluene-d8                | 10.565 | 98    | 299005   | 47.398   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 94.800%  |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 102473   | 45.548   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | =      | 91.100%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 2.365  | 50    | 444      | 0.280    | ug/l # | 42       |
| 16) Acetone                   | 4.436  | 43    | 9205     | 16.097   | ug/l   | 93       |
| 18) Methyl Acetate            | 5.030  | 43    | 462      | 0.327    | ug/l # | 80       |
| 25) 2-Butanone                | 7.488  | 43    | 181      | 0.219    | ug/l # | 40       |
| 31) Cyclohexane               | 8.230  | 56    | 2712     | 1.163    | ug/l # | 29       |
| 36) 1,1-Dichloropropene       | 8.218  | 75    | 10884    | 4.755    | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.218  | 117   | 14594    | 4.850    | ug/l # | 17       |
| 43) Isopropyl Acetate         | 8.700  | 43    | 3481     | 0.832    | ug/l # | 50       |
| 51) 4-Methyl-2-Pentanone      | 10.565 | 43    | 1004     | 0.544    | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 53346    | 24.430   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 53346    | 64.588   | ug/l # | 16       |
| 95) Naphthalene               | 15.635 | 128   | 1559     | 0.322    | ug/l # | 69       |
| -----                         |        |       |          |          |        |          |

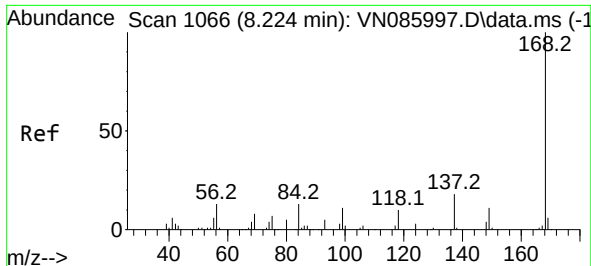
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : Q1604-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
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FRAC-TANK-N45878

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Quant Title : SW846 8260  
QLast Update : Wed Mar 19 03:20:56 2025  
Response via : Initial Calibration

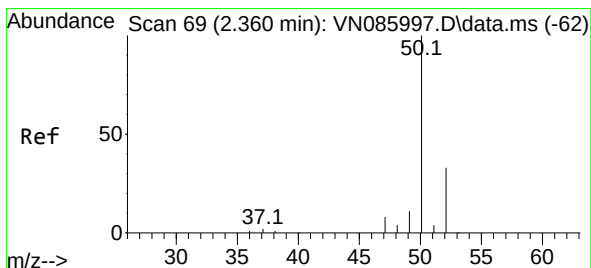
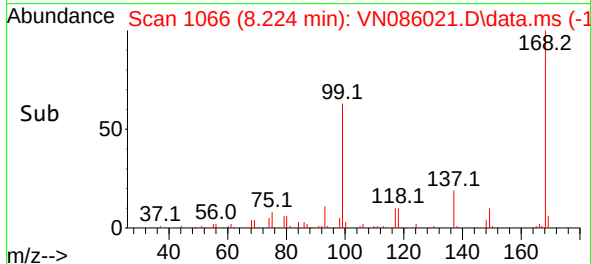
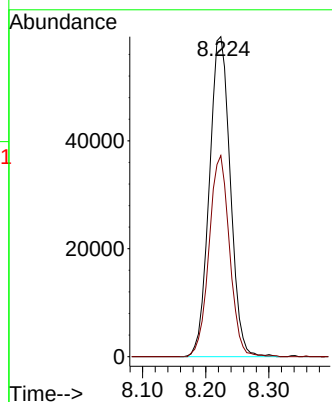
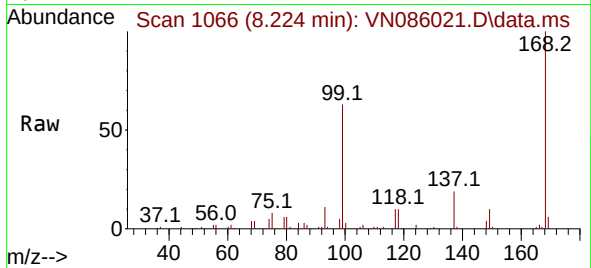




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN086021.D  
Acq: 19 Mar 2025 20:03

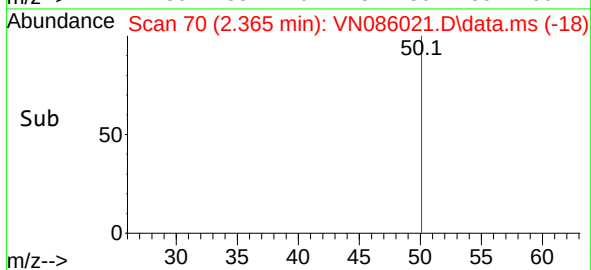
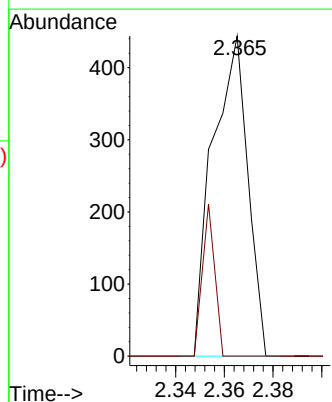
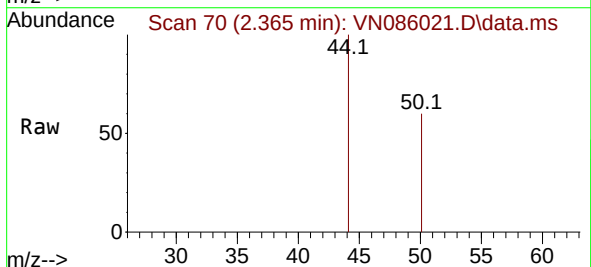
Instrument :  
MSVOA\_N  
ClientSampleId :  
FRAC-TANK-N45878

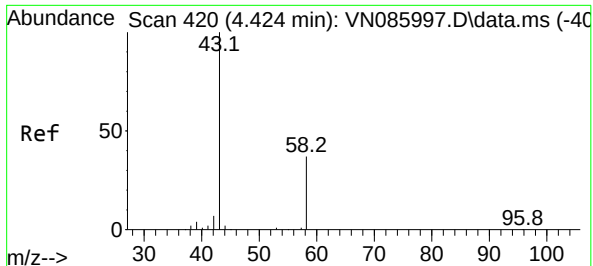
Tgt Ion:168 Resp: 136693  
Ion Ratio Lower Upper  
168 100  
99 62.8 49.4 74.2



#3  
Chloromethane  
Concen: 0.280 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN086021.D  
Acq: 19 Mar 2025 20:03

Tgt Ion: 50 Resp: 444  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.0 39.0#

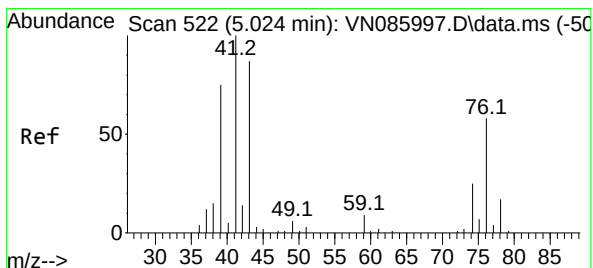
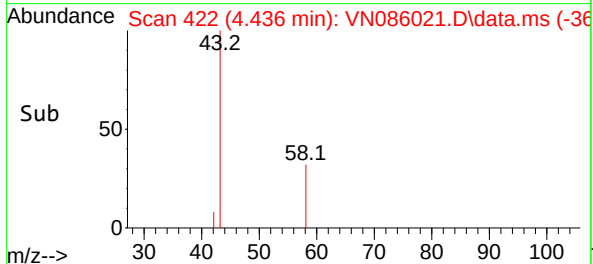
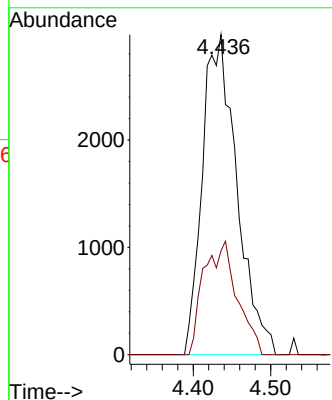
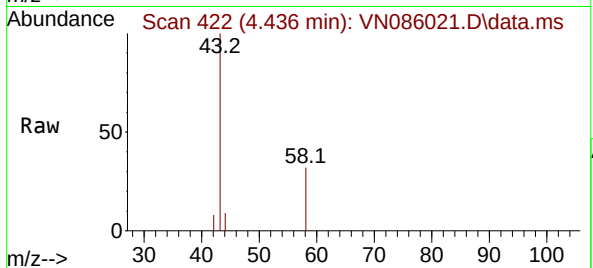




#16  
Acetone  
Concen: 16.097 ug/l  
RT: 4.436 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VN086021.D  
Acq: 19 Mar 2025 20:03

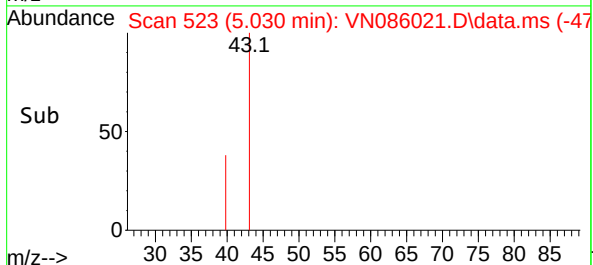
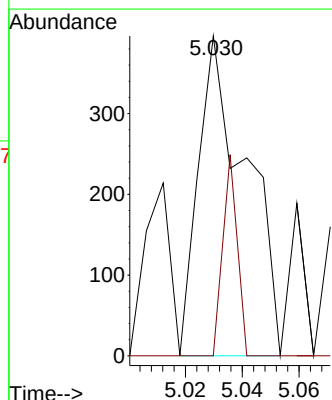
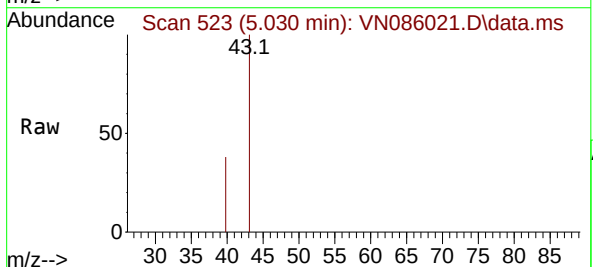
Instrument :  
MSVOA\_N  
ClientSampleId :  
FRAC-TANK-N45878

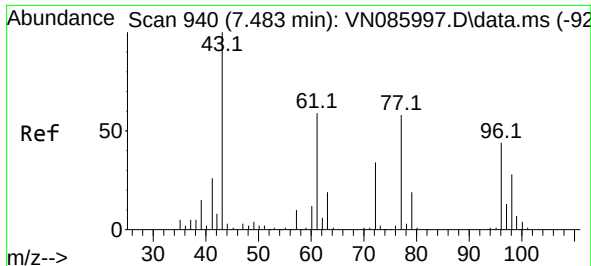
Tgt Ion: 43 Resp: 9205  
Ion Ratio Lower Upper  
43 100  
58 32.4 29.4 44.2



#18  
Methyl Acetate  
Concen: 0.327 ug/l  
RT: 5.030 min Scan# 523  
Delta R.T. 0.006 min  
Lab File: VN086021.D  
Acq: 19 Mar 2025 20:03

Tgt Ion: 43 Resp: 462  
Ion Ratio Lower Upper  
43 100  
74 19.0 23.9 35.9#

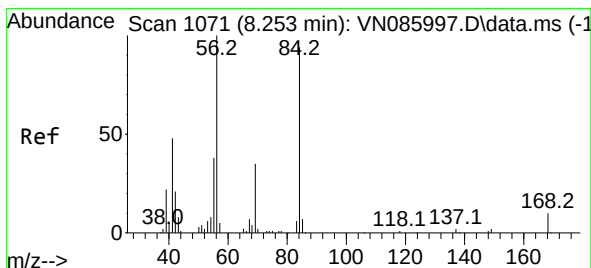
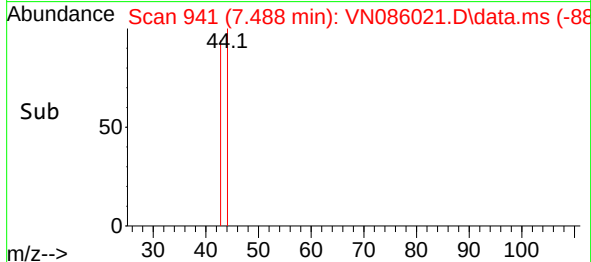
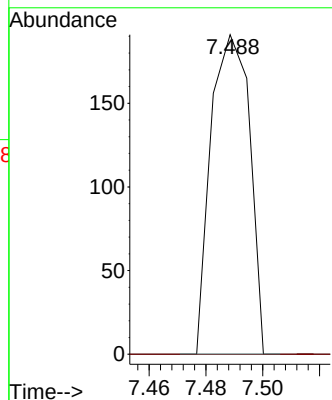
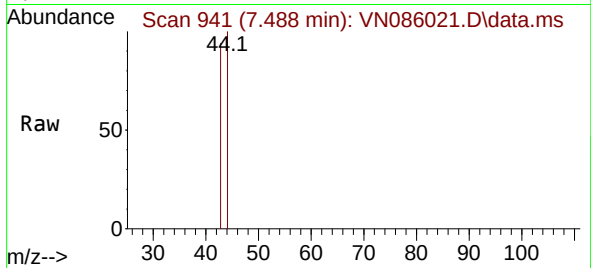




#25  
2-Butanone  
Concen: 0.219 ug/l  
RT: 7.488 min Scan# 941  
Delta R.T. 0.006 min  
Lab File: VN086021.D  
Acq: 19 Mar 2025 20:03

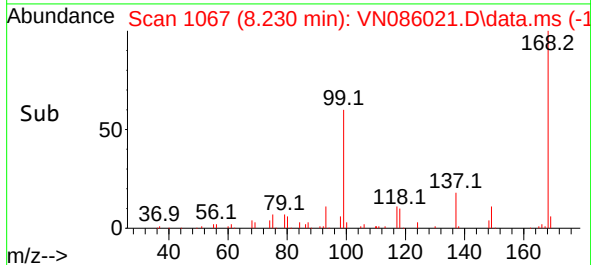
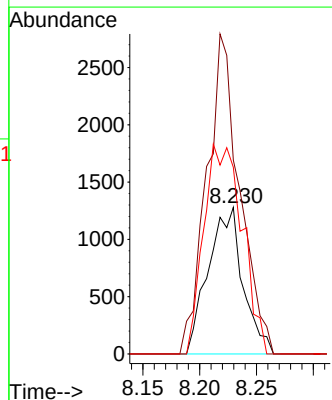
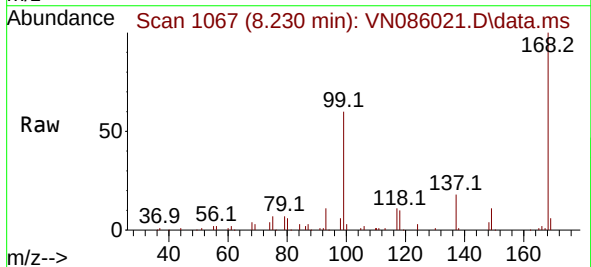
Instrument :  
MSVOA\_N  
ClientSampleId :  
FRAC-TANK-N45878

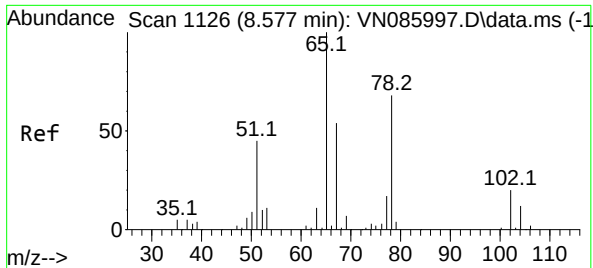
Tgt Ion: 43 Resp: 181  
Ion Ratio Lower Upper  
43 100  
72 0.0 27.4 41.0#



#31  
Cyclohexane  
Concen: 1.163 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.024 min  
Lab File: VN086021.D  
Acq: 19 Mar 2025 20:03

Tgt Ion: 56 Resp: 2712  
Ion Ratio Lower Upper  
56 100  
69 132.4 28.0 42.0#  
84 127.4 75.0 112.6#





#33

1,2-Dichloroethane-d4

Concen: 56.346 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086021.D

Acq: 19 Mar 2025 20:03

Instrument :

MSVOA\_N

ClientSampleId :

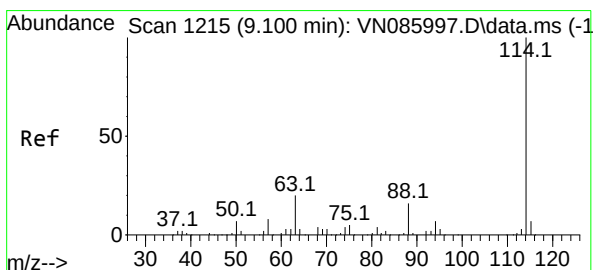
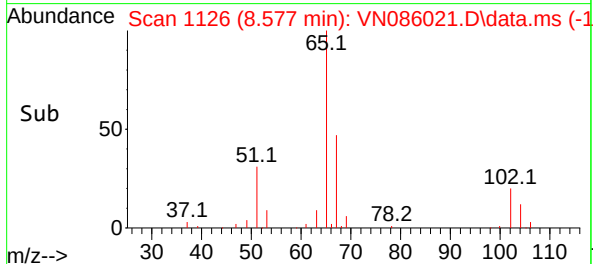
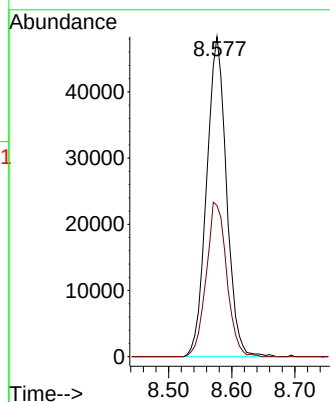
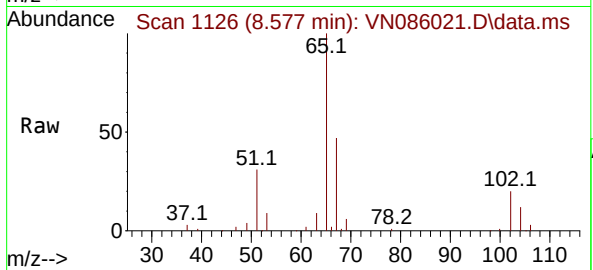
FRAC-TANK-N45878

Tgt Ion: 65 Resp: 105468

Ion Ratio Lower Upper

65 100

67 49.8 0.0 102.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086021.D

Acq: 19 Mar 2025 20:03

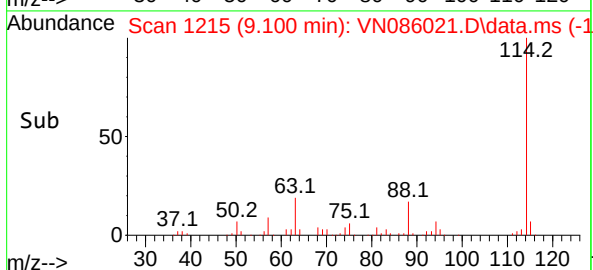
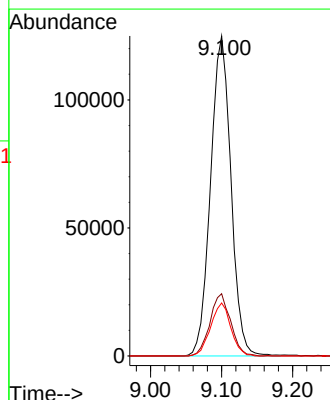
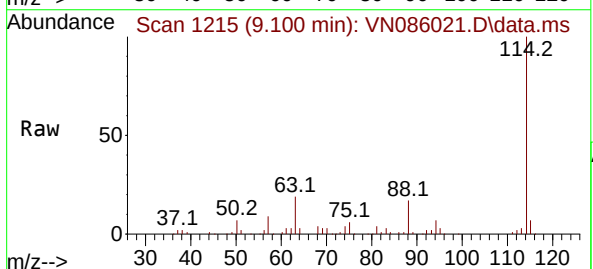
Tgt Ion: 114 Resp: 249028

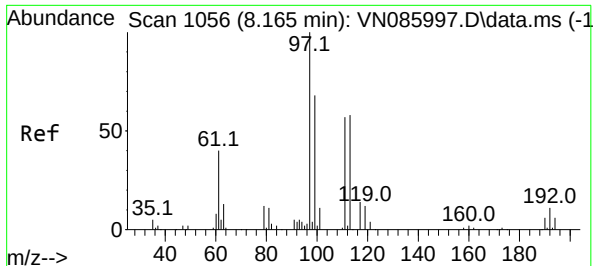
Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.6

88 16.6 0.0 32.6





#35

Dibromofluoromethane

Concen: 51.240 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086021.D

Acq: 19 Mar 2025 20:03

Instrument :

MSVOA\_N

ClientSampleId :

FRAC-TANK-N45878

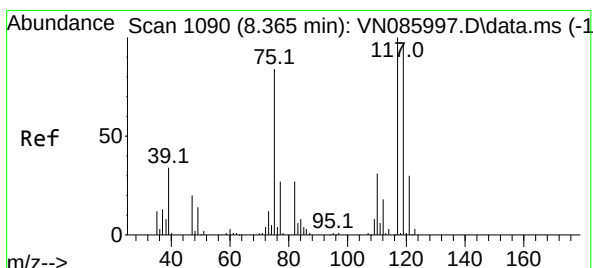
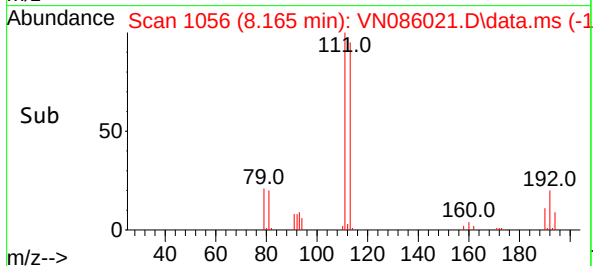
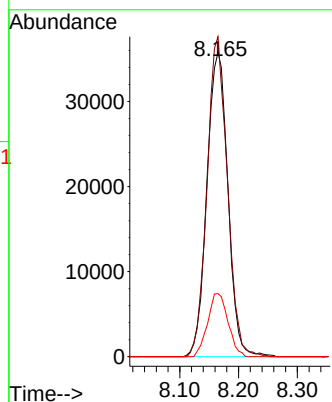
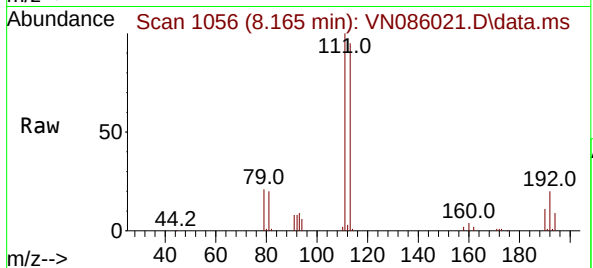
Tgt Ion:113 Resp: 89064

Ion Ratio Lower Upper

113 100

111 101.4 81.8 122.8

192 20.1 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.755 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086021.D

Acq: 19 Mar 2025 20:03

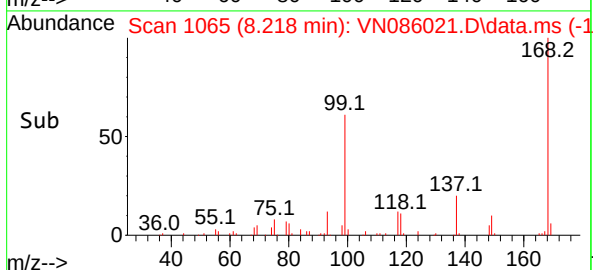
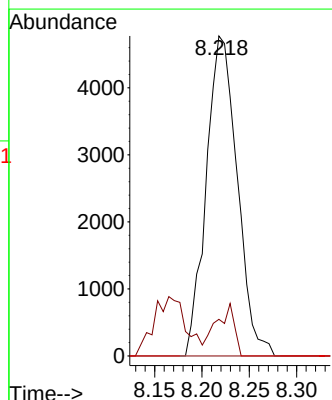
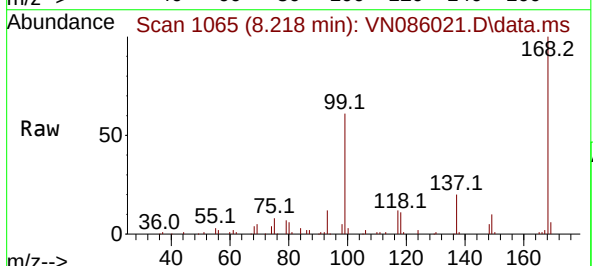
Tgt Ion: 75 Resp: 10884

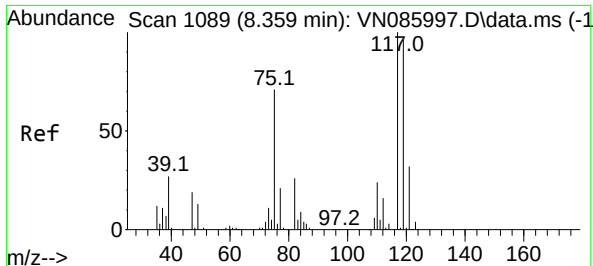
Ion Ratio Lower Upper

75 100

110 9.7 17.8 53.3#

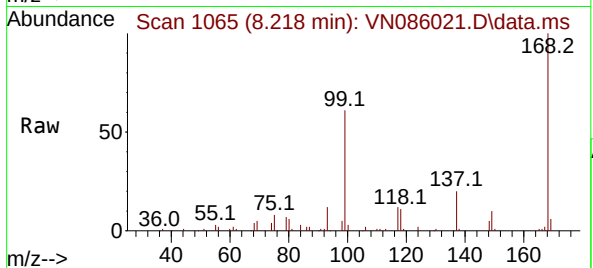
77 0.0 25.0 37.4#



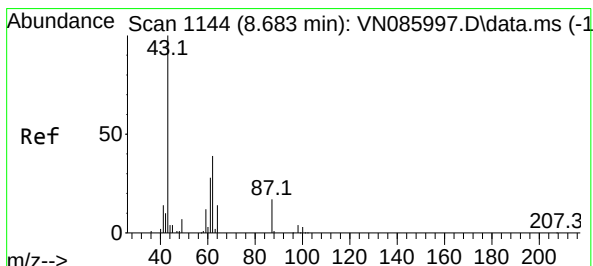
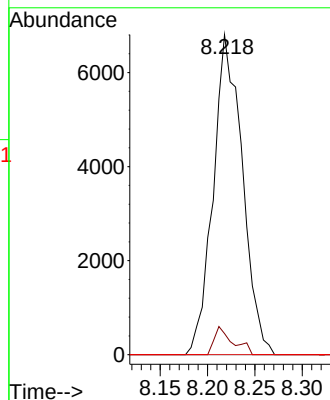
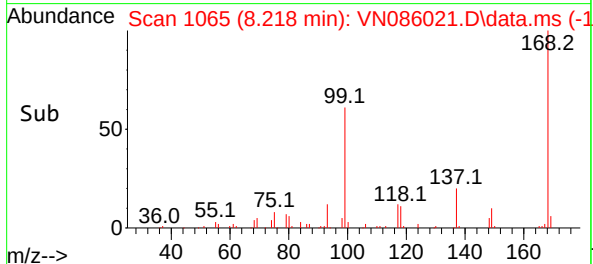


#38  
Carbon Tetrachloride  
Concen: 4.850 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.141 min  
Lab File: VN086021.D  
Acq: 19 Mar 2025 20:03

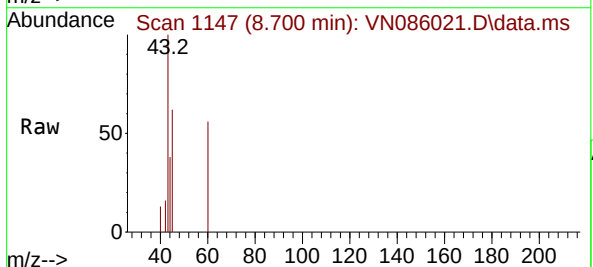
Instrument : MSVOA\_N  
ClientSampleId : FRAC-TANK-N45878



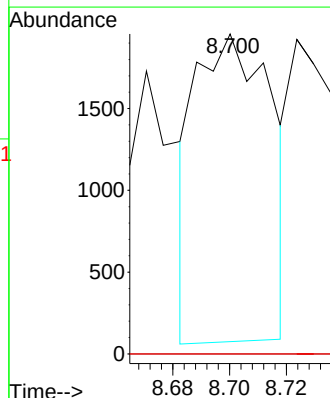
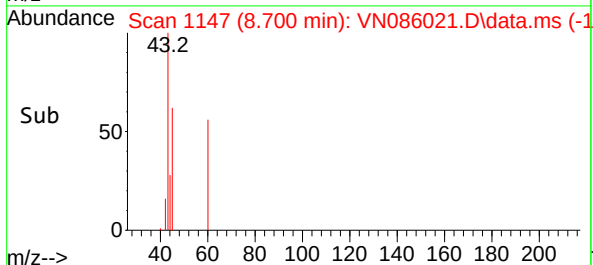
Tgt Ion:117 Resp: 14594  
Ion Ratio Lower Upper  
117 100  
119 6.6 77.0 115.4#  
121 0.0 25.6 38.4#



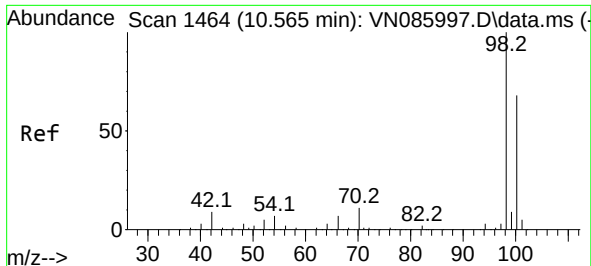
#43  
Isopropyl Acetate  
Concen: 0.832 ug/l  
RT: 8.700 min Scan# 1147  
Delta R.T. 0.018 min  
Lab File: VN086021.D  
Acq: 19 Mar 2025 20:03



Tgt Ion: 43 Resp: 3481  
Ion Ratio Lower Upper  
43 100  
61 0.0 25.0 37.6#  
87 0.0 13.0 19.4#







#50

Toluene-d8

Concen: 47.398 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086021.D

Acq: 19 Mar 2025 20:03

Instrument :

MSVOA\_N

ClientSampleId :

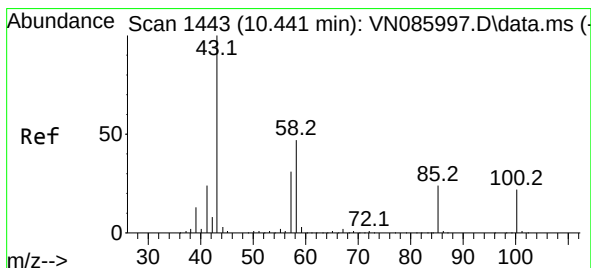
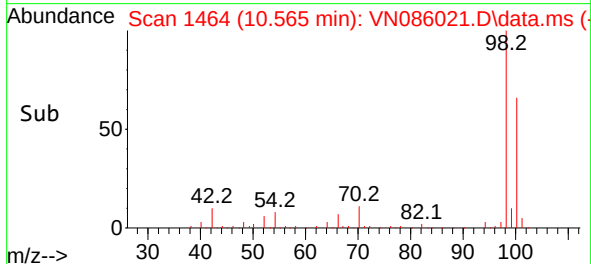
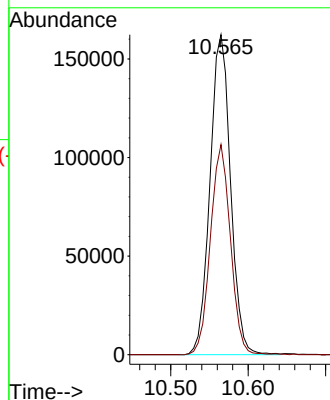
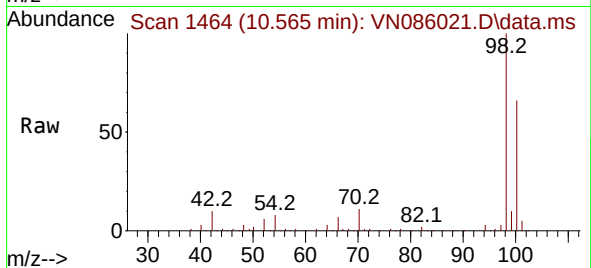
FRAC-TANK-N45878

Tgt Ion: 98 Resp: 299005

Ion Ratio Lower Upper

98 100

100 63.9 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 0.544 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.123 min

Lab File: VN086021.D

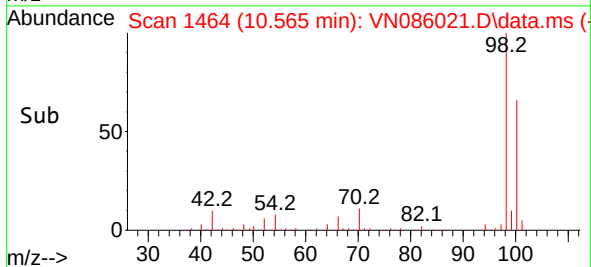
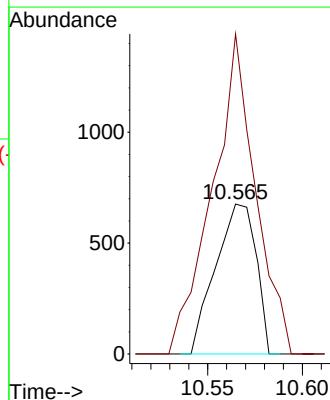
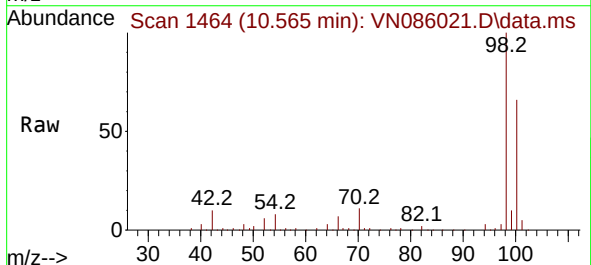
Acq: 19 Mar 2025 20:03

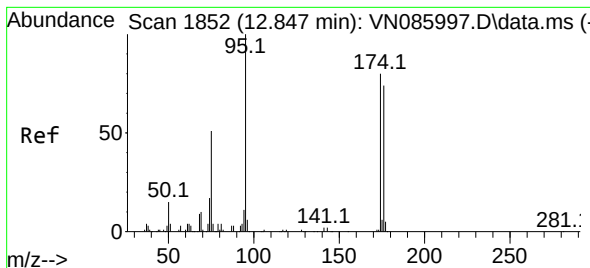
Tgt Ion: 43 Resp: 1004

Ion Ratio Lower Upper

43 100

58 226.7 37.4 56.0#





#62

4-Bromofluorobenzene

Concen: 45.548 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN086021.D

Acq: 19 Mar 2025 20:03

Instrument :

MSVOA\_N

ClientSampleId :

FRAC-TANK-N45878

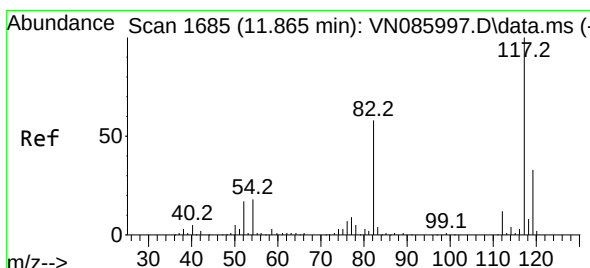
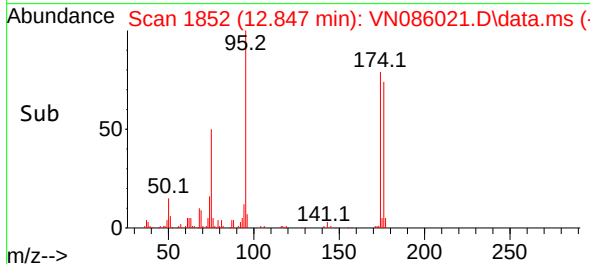
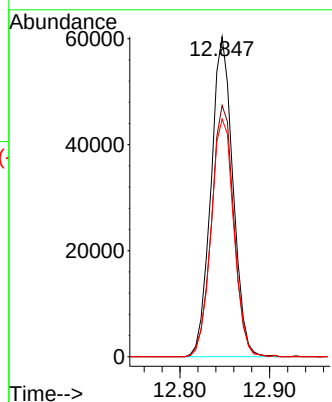
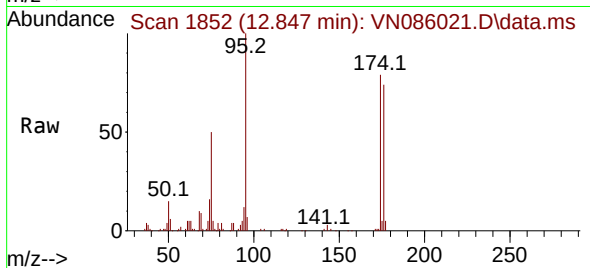
Tgt Ion: 95 Resp: 102473

Ion Ratio Lower Upper

95 100

174 79.8 0.0 156.8

176 76.9 0.0 152.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN086021.D

Acq: 19 Mar 2025 20:03

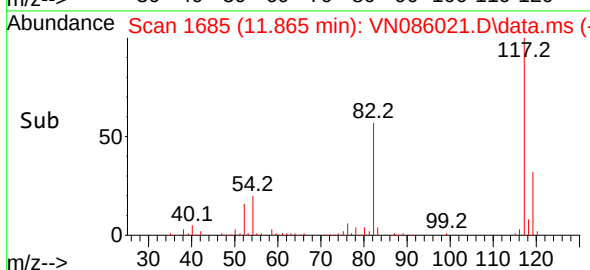
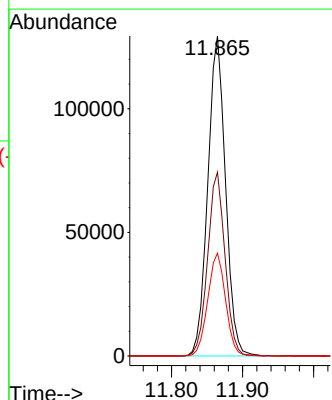
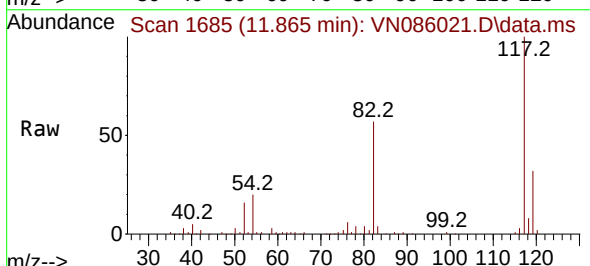
Tgt Ion: 117 Resp: 224312

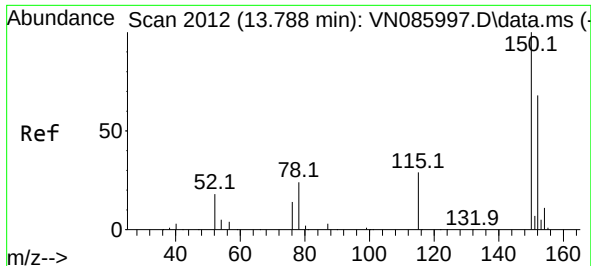
Ion Ratio Lower Upper

117 100

82 57.4 46.7 70.1

119 32.2 26.5 39.7

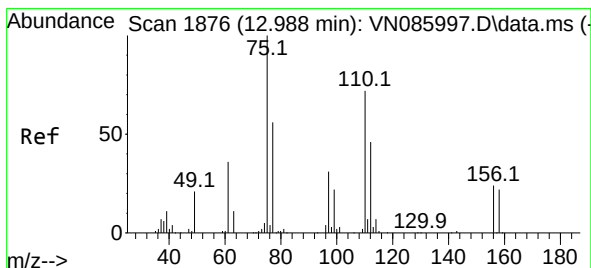
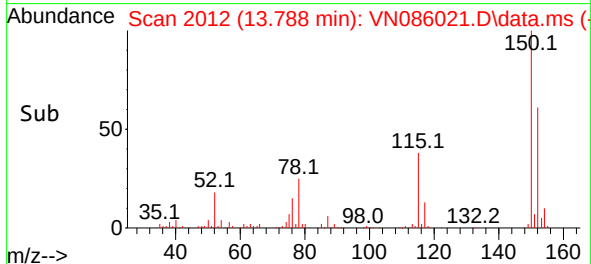
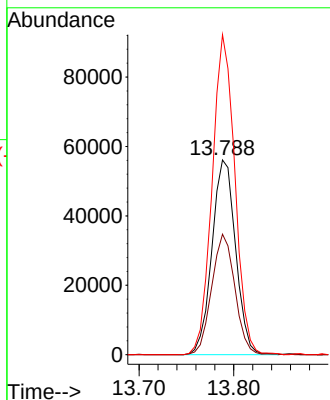
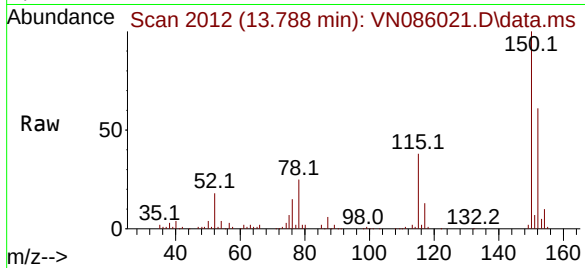




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.788 min Scan# 20  
 Delta R.T. -0.000 min  
 Lab File: VN086021.D  
 Acq: 19 Mar 2025 20:03

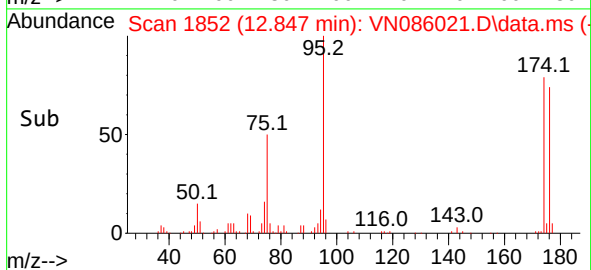
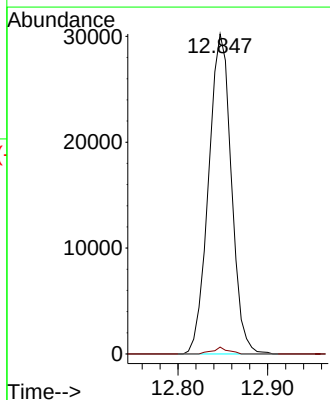
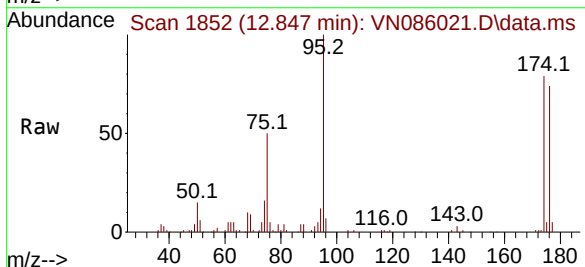
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FRAC-TANK-N45878

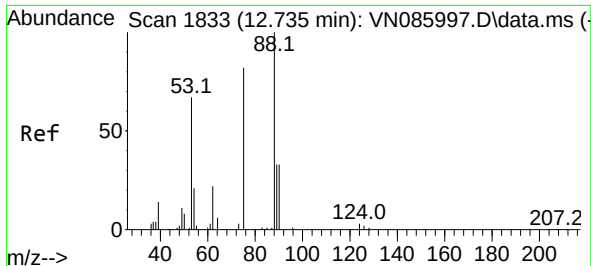
Tgt Ion:152 Resp: 97536  
 Ion Ratio Lower Upper  
 152 100  
 115 60.8 31.1 93.2  
 150 157.7 0.0 359.6



#76  
 1,2,3-Trichloropropane  
 Concen: 24.430 ug/l  
 RT: 12.847 min Scan# 1852  
 Delta R.T. -0.141 min  
 Lab File: VN086021.D  
 Acq: 19 Mar 2025 20:03

Tgt Ion: 75 Resp: 53346  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 83.7 251.0#

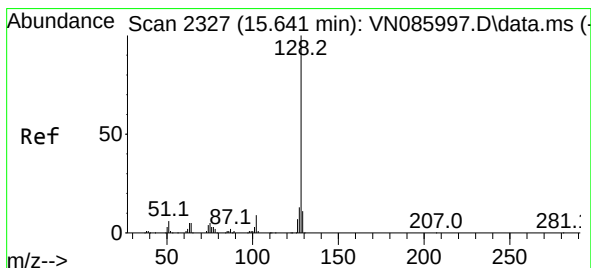
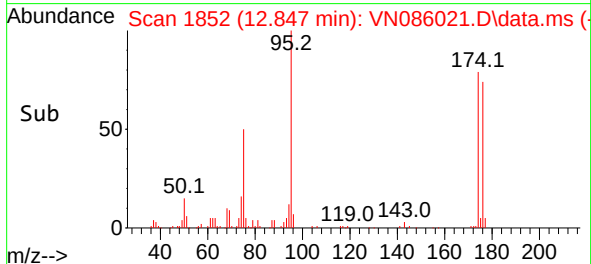
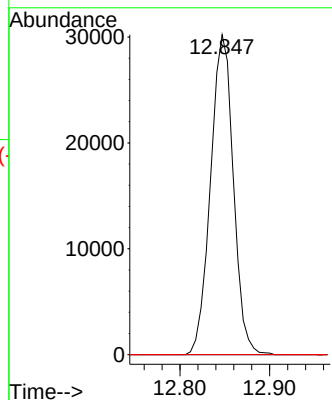
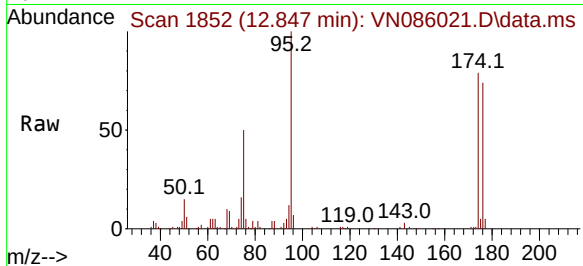




#81  
trans-1,4-Dichloro-2-butene  
Concen: 64.588 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN086021.D  
Acq: 19 Mar 2025 20:03

Instrument :  
MSVOA\_N  
ClientSampleId :  
FRAC-TANK-N45878

Tgt Ion: 75 Resp: 53346  
Ion Ratio Lower Upper  
75 100  
53 0.0 66.0 99.0#  
89 0.0 36.9 55.3#



#95  
Naphthalene  
Concen: 0.322 ug/l  
RT: 15.635 min Scan# 2326  
Delta R.T. -0.006 min  
Lab File: VN086021.D  
Acq: 19 Mar 2025 20:03

Tgt Ion: 128 Resp: 1559  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.2 15.4#  
129 0.0 9.0 13.6#

