

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD020923\  
 Data File : VD075289.D  
 Acq On : 09 Feb 2023 12:48  
 Operator : KP/SY  
 Sample : 01510-01  
 Misc : 7.06G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TWM-TP14-020823

Quant Time: Feb 10 02:00:54 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D020723S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 08 04:26:58 2023  
 Response via : Initial Calibration

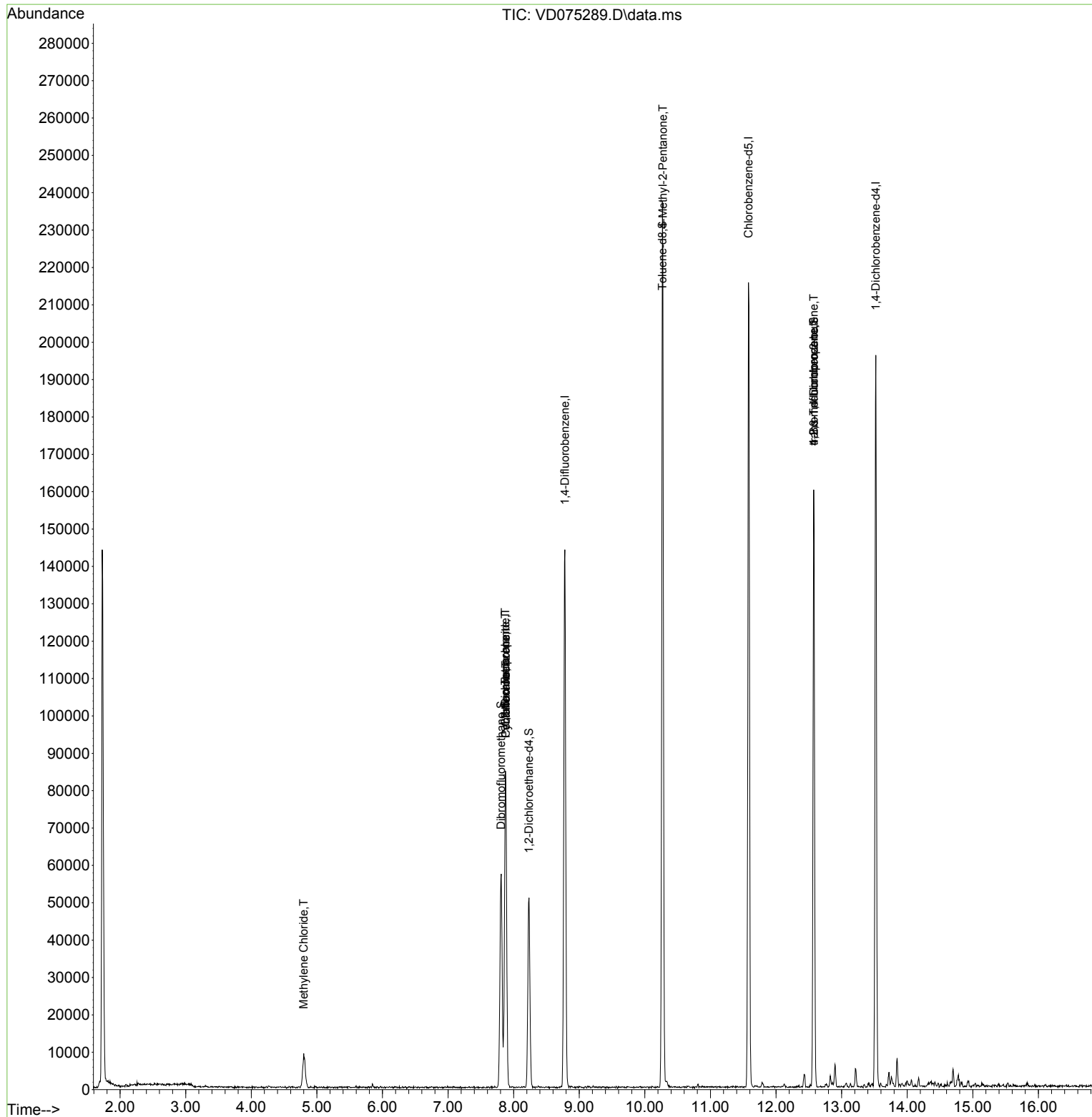
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.881     | 168   | 63696    | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.781     | 114   | 121569   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.581    | 117   | 120667   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.522    | 152   | 48242    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.234     | 65    | 39395    | 52.746    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 105.500% |          |
| 35) Dibromofluoromethane      | 7.810     | 113   | 40957    | 48.047    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 96.100%  |          |
| 50) Toluene-d8                | 10.269    | 98    | 153660   | 47.532    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery  | = 95.060%  |          |
| 62) 4-Bromofluorobenzene      | 12.575    | 95    | 46707    | 43.817    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery  | = 87.640%  |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.152     | 50    | 172      | Below Cal | #          | 41       |
| 20) Methylene Chloride        | 4.799     | 84    | 6055     | 1.413     | ug/l #     | 93       |
| 31) Cyclohexane               | 7.881     | 56    | 1798     | 1.356     | ug/l #     | 48       |
| 36) 1,1-Dichloropropene       | 7.875     | 75    | 5389     | 4.058     | ug/l #     | 43       |
| 38) Carbon Tetrachloride      | 7.875     | 117   | 7031     | 5.714     | ug/l #     | 14       |
| 51) 4-Methyl-2-Pentanone      | 10.275    | 43    | 747      | 1.335     | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.575    | 75    | 26151    | 47.724    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.575    | 75    | 26151    | 150.518   | ug/l #     | 14       |
| -----                         |           |       |          |           |            |          |

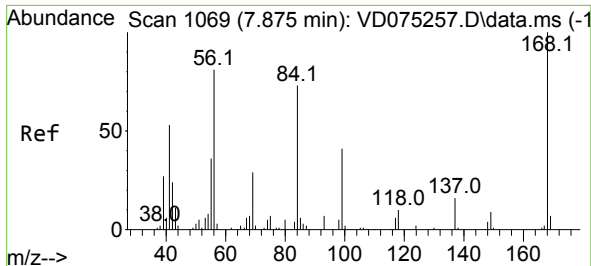
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD020923\  
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Acq On : 09 Feb 2023 12:48  
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Sample : 01510-01  
Misc : 7.06G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
TWM-TP14-020823

Quant Time: Feb 10 02:00:54 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D020723S.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 08 04:26:58 2023  
Response via : Initial Calibration

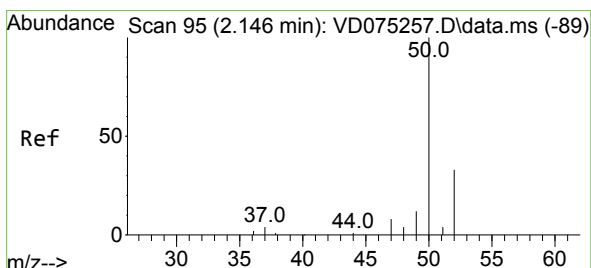
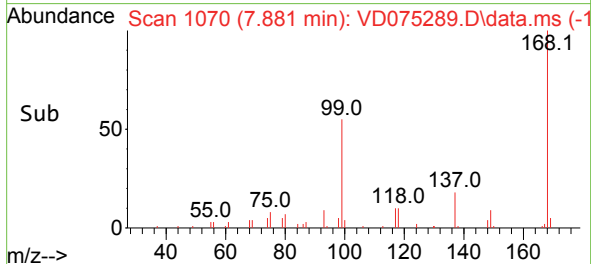
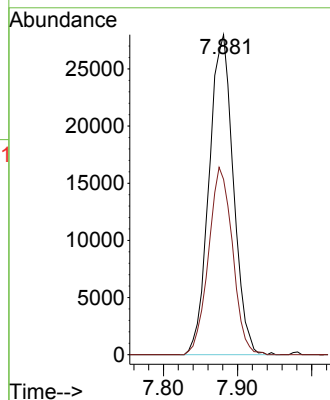
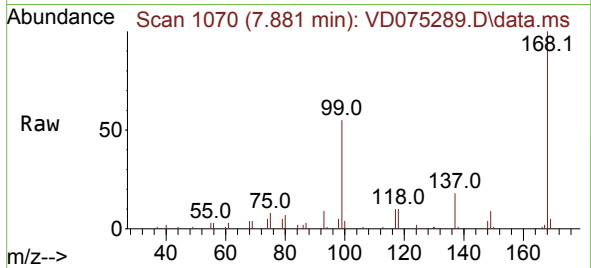




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.881 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VD075289.D  
Acq: 09 Feb 2023 12:48

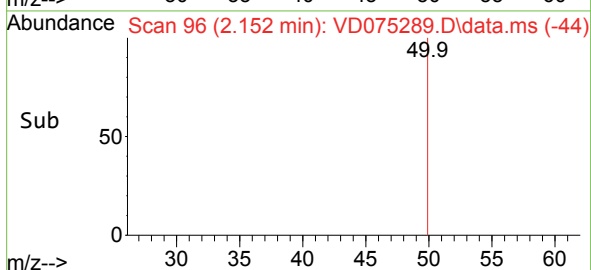
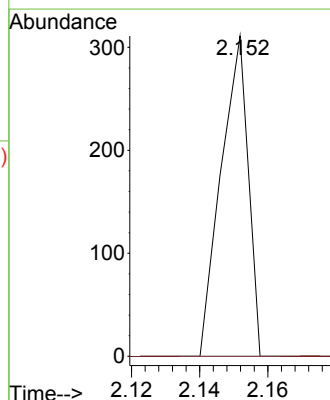
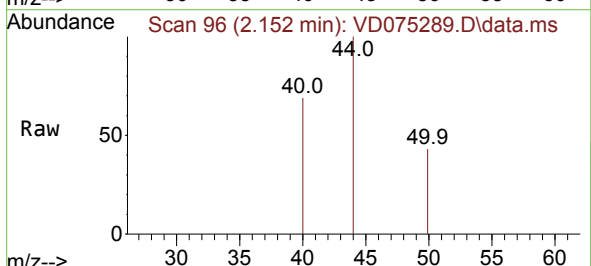
Instrument :  
MSVOA\_D  
ClientSampleId :  
TWM-TP14-020823

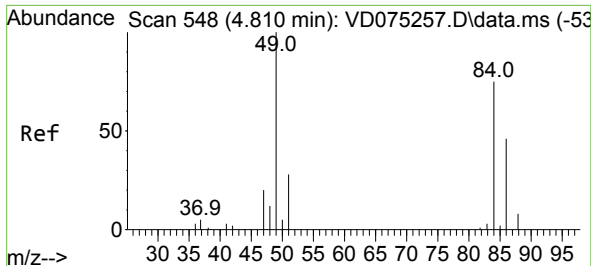
Tgt Ion:168 Resp: 63696  
Ion Ratio Lower Upper  
168 100  
99 54.8 45.2 67.8



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.152 min Scan# 96  
Delta R.T. 0.006 min  
Lab File: VD075289.D  
Acq: 09 Feb 2023 12:48

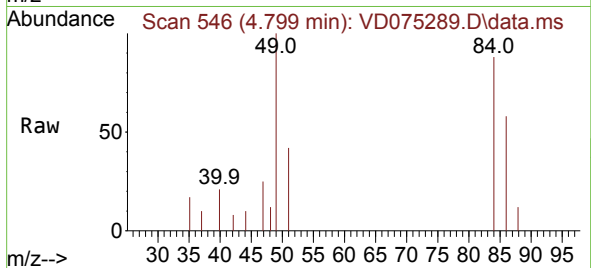
Tgt Ion: 50 Resp: 172  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.0 40.6#



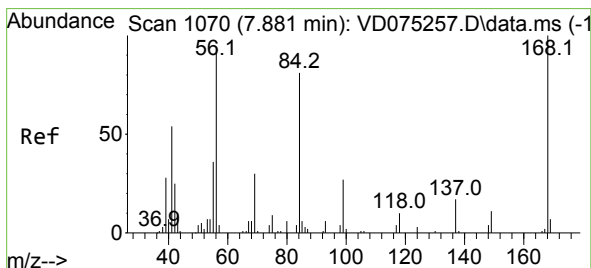
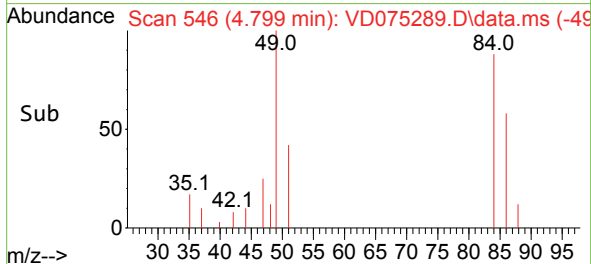
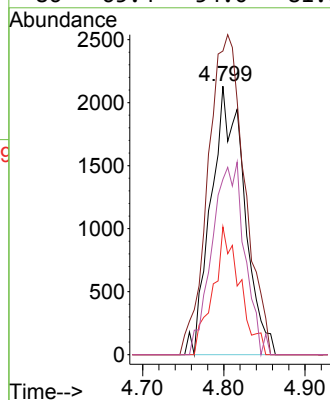


#20  
Methylene Chloride  
Concen: 1.413 ug/l  
RT: 4.799 min Scan# 548  
Delta R.T. -0.011 min  
Lab File: VD075289.D  
Acq: 09 Feb 2023 12:48

Instrument :  
MSVOA\_D  
ClientSampleId :  
TWM-TP14-020823

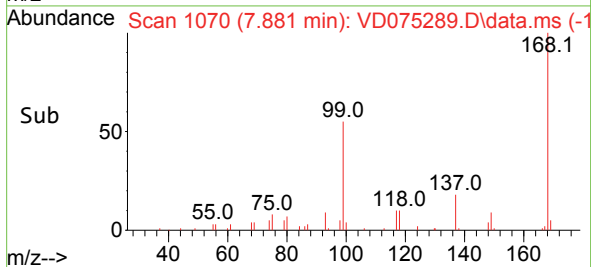
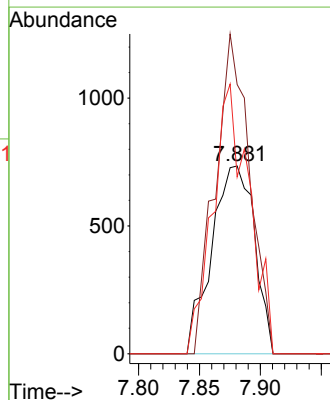
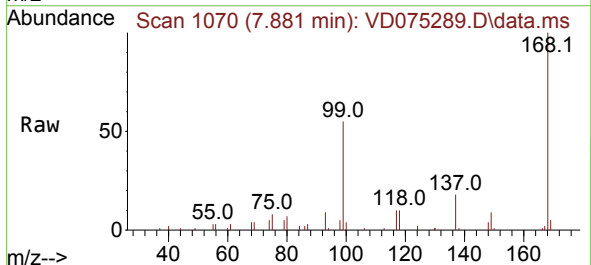


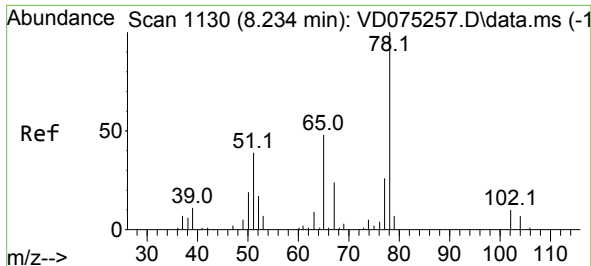
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 6055  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 113.1    | 97.0 145.6  |
| 51 47.7     | 30.9 46.3#  |
| 86 65.4     | 54.0 81.0   |



#31  
Cyclohexane  
Concen: 1.356 ug/l  
RT: 7.881 min Scan# 1070  
Delta R.T. -0.000 min  
Lab File: VD075289.D  
Acq: 09 Feb 2023 12:48

|             |             |
|-------------|-------------|
| Tgt Ion: 56 | Resp: 1798  |
| Ion Ratio   | Lower Upper |
| 56 100      |             |
| 69 143.3    | 26.6 40.0#  |
| 84 94.1     | 74.1 111.1  |

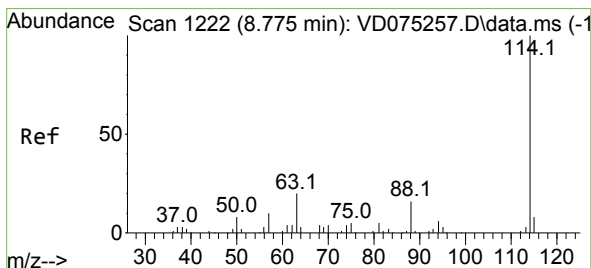
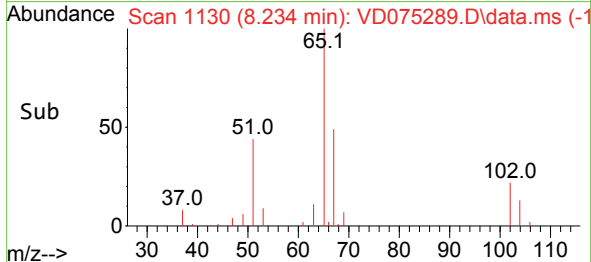
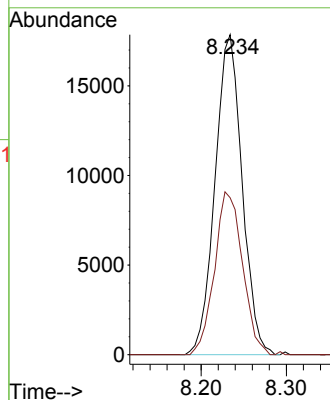
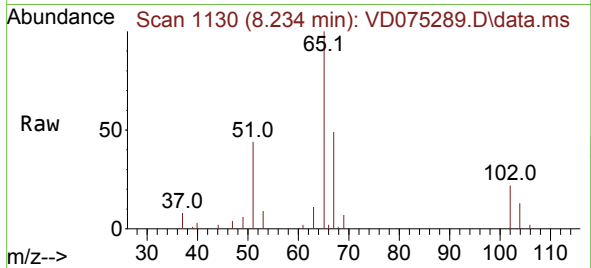




#33  
1,2-Dichloroethane-d4  
Concen: 52.746 ug/l  
RT: 8.234 min Scan# 1130  
Delta R.T. -0.000 min  
Lab File: VD075289.D  
Acq: 09 Feb 2023 12:48

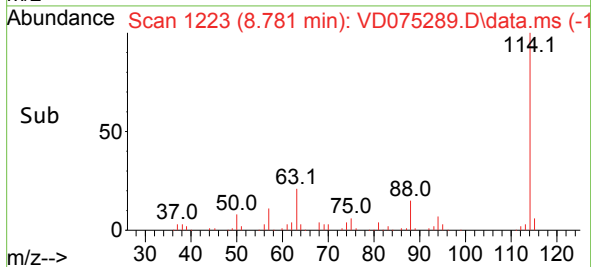
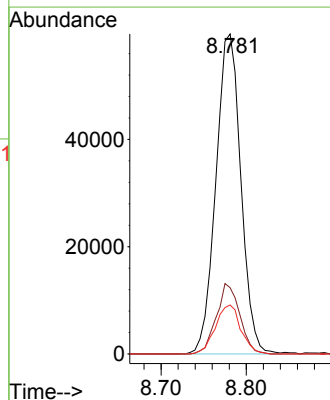
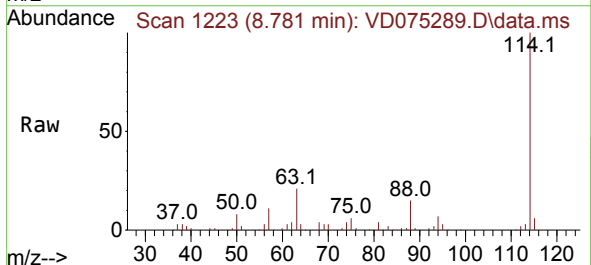
Instrument :  
MSVOA\_D  
ClientSampleId :  
TWM-TP14-020823

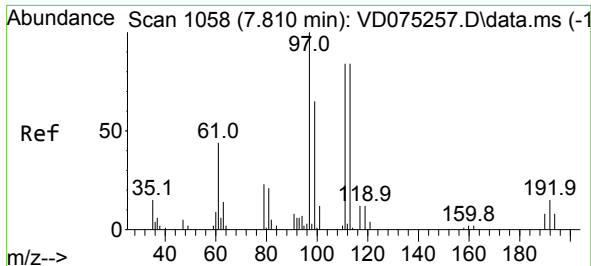
Tgt Ion: 65 Resp: 39395  
Ion Ratio Lower Upper  
65 100  
67 52.6 0.0 105.2



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.781 min Scan# 1223  
Delta R.T. 0.006 min  
Lab File: VD075289.D  
Acq: 09 Feb 2023 12:48

Tgt Ion:114 Resp: 121569  
Ion Ratio Lower Upper  
114 100  
63 20.7 0.0 40.2  
88 15.3 0.0 32.2





#35

Dibromofluoromethane

Concen: 48.047 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VD075289.D

Acq: 09 Feb 2023 12:48

Instrument :

MSVOA\_D

ClientSampleId :

TWM-TP14-020823

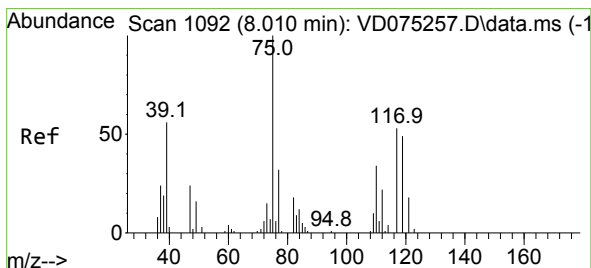
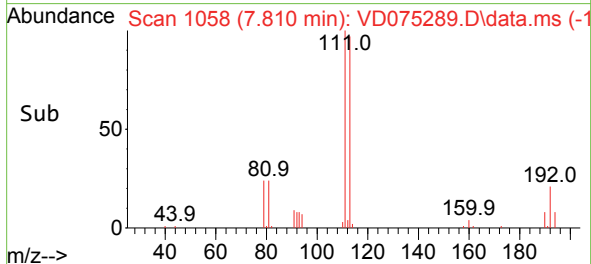
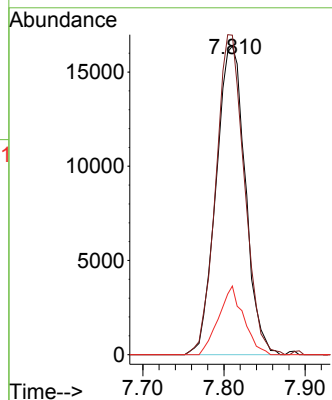
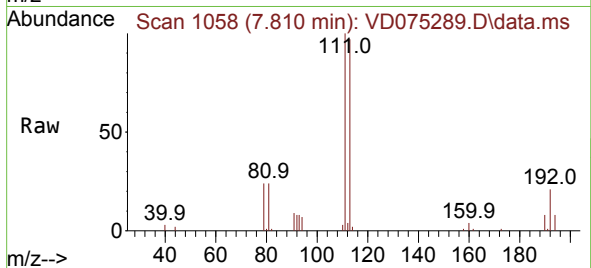
Tgt Ion:113 Resp: 40957

Ion Ratio Lower Upper

113 100

111 101.1 80.1 120.1

192 19.1 15.4 23.0



#36

1,1-Dichloropropene

Concen: 4.058 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.135 min

Lab File: VD075289.D

Acq: 09 Feb 2023 12:48

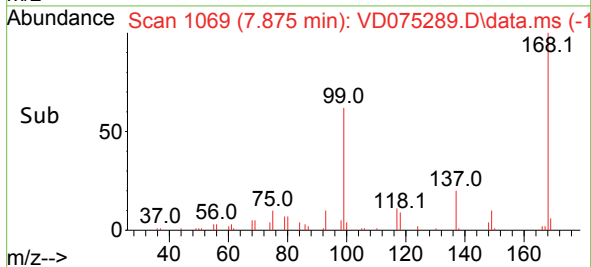
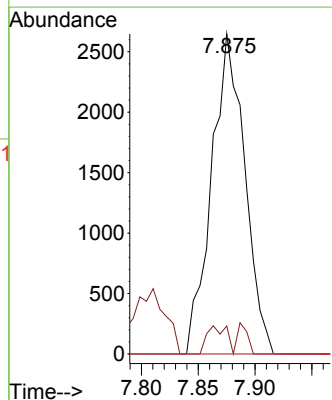
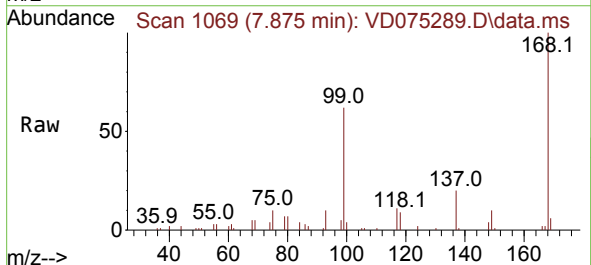
Tgt Ion: 75 Resp: 5389

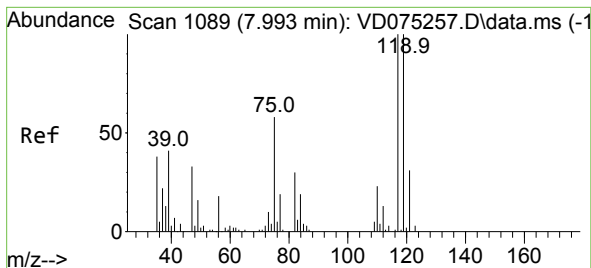
Ion Ratio Lower Upper

75 100

110 2.9 18.1 54.4#

77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 5.714 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.118 min

Lab File: VD075289.D

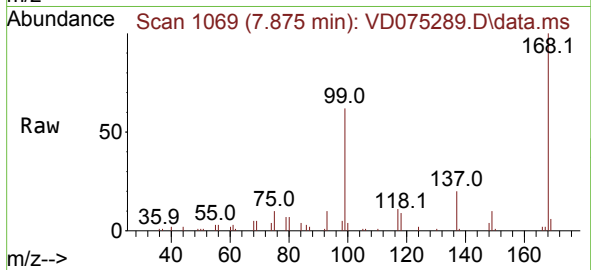
Acq: 09 Feb 2023 12:48

Instrument :

MSVOA\_D

ClientSampleId :

TWM-TP14-020823



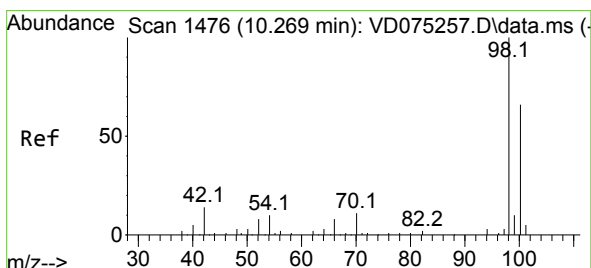
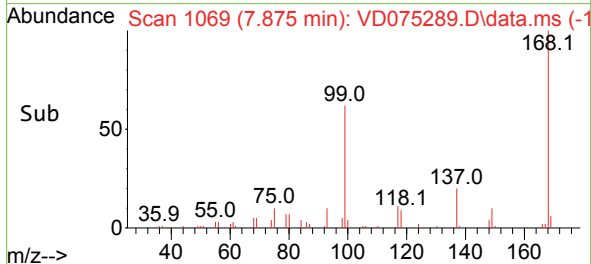
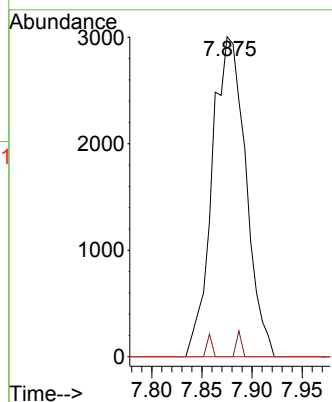
Tgt Ion:117 Resp: 7031

Ion Ratio Lower Upper

117 100

119 0.0 73.6 110.4#

121 0.0 25.4 38.0#



#50

Toluene-d8

Concen: 47.532 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD075289.D

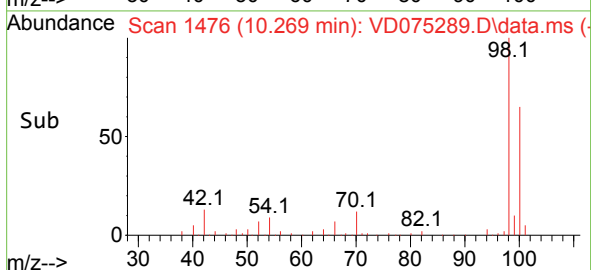
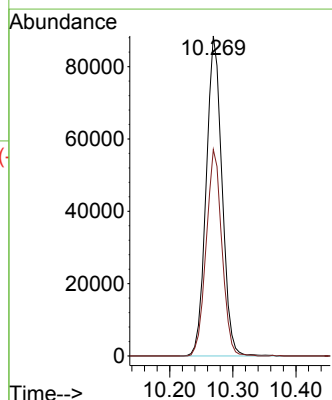
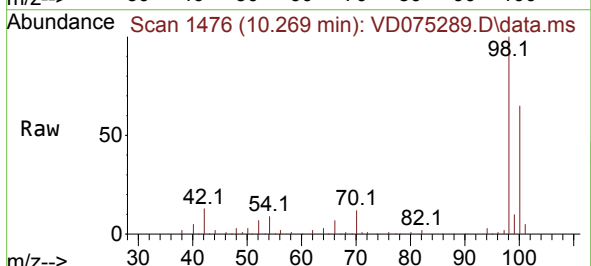
Acq: 09 Feb 2023 12:48

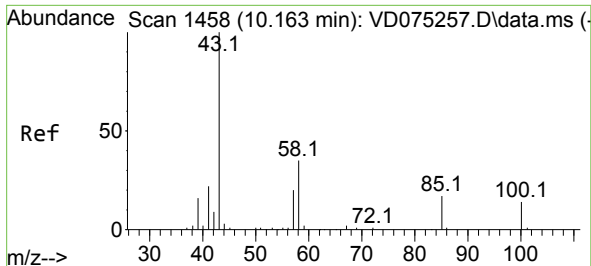
Tgt Ion: 98 Resp: 153660

Ion Ratio Lower Upper

98 100

100 64.2 52.7 79.1

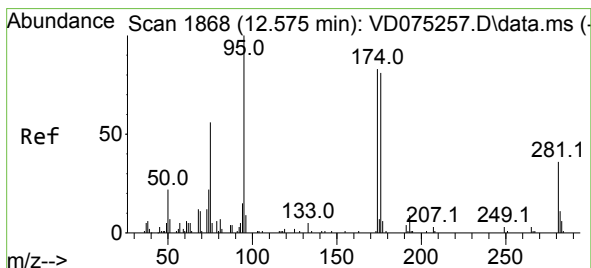
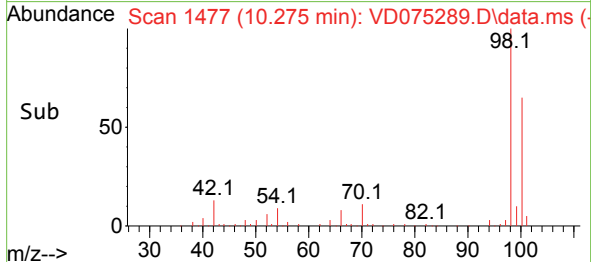
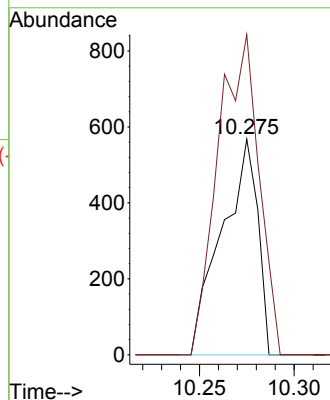
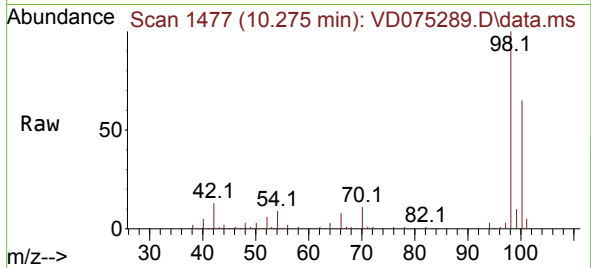




#51  
4-Methyl-2-Pentanone  
Concen: 1.335 ug/l  
RT: 10.275 min Scan# 1458  
Delta R.T. 0.112 min  
Lab File: VD075289.D  
Acq: 09 Feb 2023 12:48

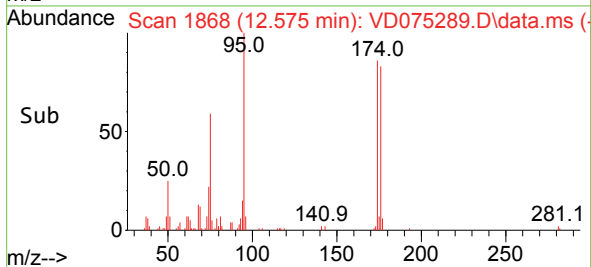
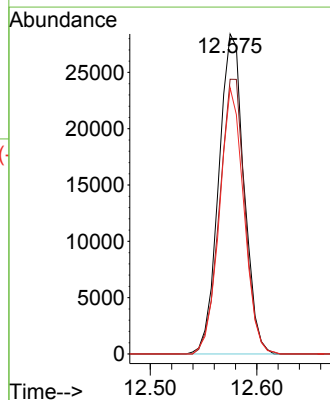
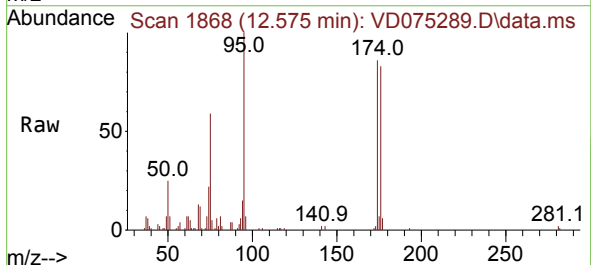
Instrument :  
MSVOA\_D  
ClientSampleId :  
TWM-TP14-020823

Tgt Ion: 43 Resp: 747  
Ion Ratio Lower Upper  
43 100  
58 169.2 31.4 47.0#

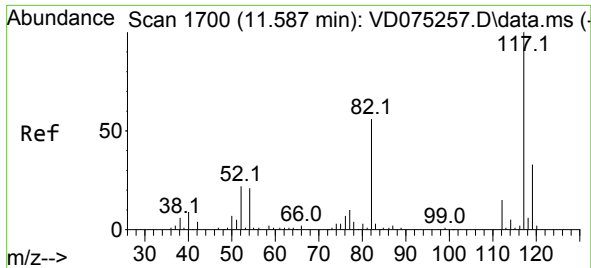


#62  
4-Bromofluorobenzene  
Concen: 43.817 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VD075289.D  
Acq: 09 Feb 2023 12:48

Tgt Ion: 95 Resp: 46707  
Ion Ratio Lower Upper  
95 100  
174 86.1 0.0 161.2  
176 80.4 0.0 160.2



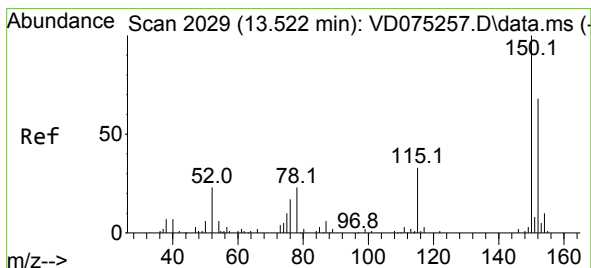
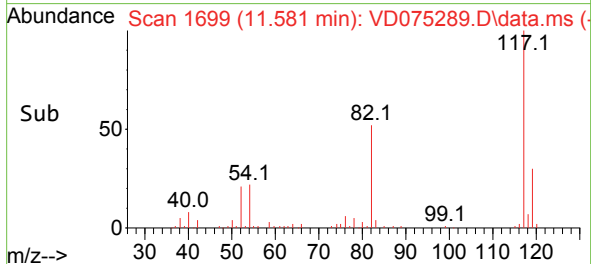
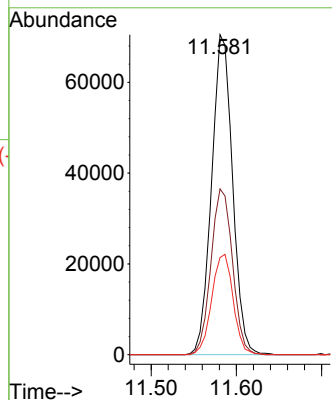
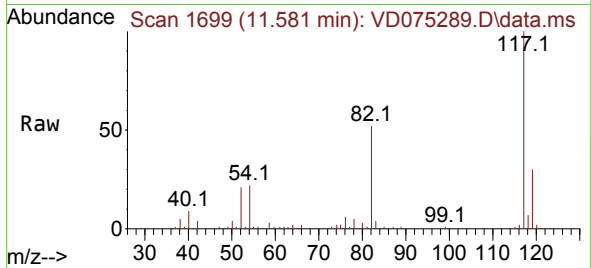




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1699  
Delta R.T. -0.006 min  
Lab File: VD075289.D  
Acq: 09 Feb 2023 12:48

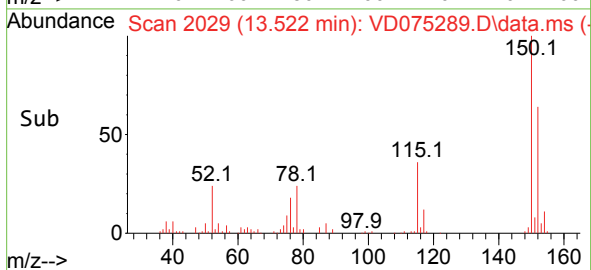
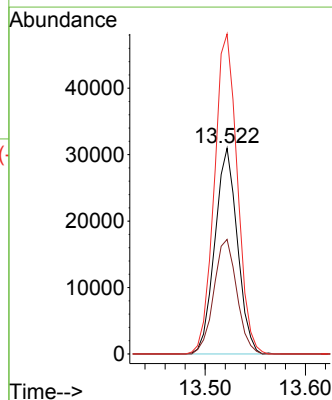
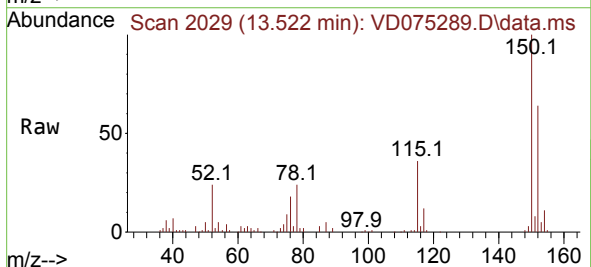
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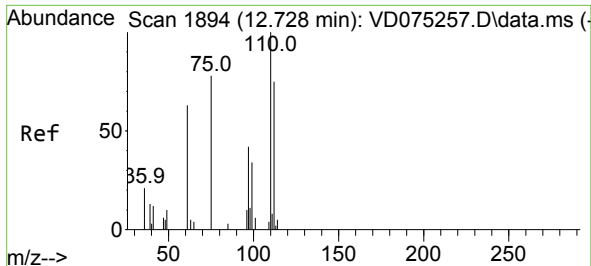
Tgt Ion:117 Resp: 120667  
Ion Ratio Lower Upper  
117 100  
82 51.8 39.6 59.4  
119 30.3 24.6 37.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.522 min Scan# 2029  
Delta R.T. -0.000 min  
Lab File: VD075289.D  
Acq: 09 Feb 2023 12:48

Tgt Ion:152 Resp: 48242  
Ion Ratio Lower Upper  
152 100  
115 56.9 28.8 86.4  
150 158.5 0.0 348.6

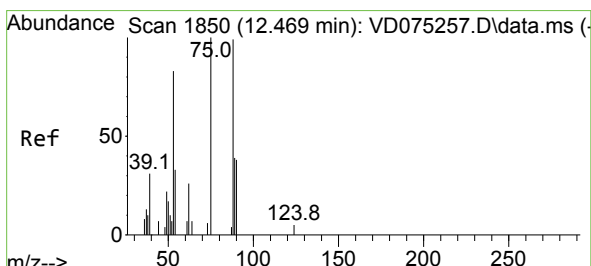
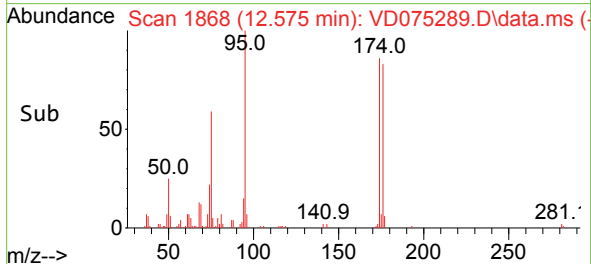
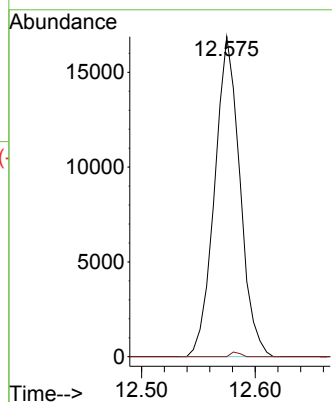
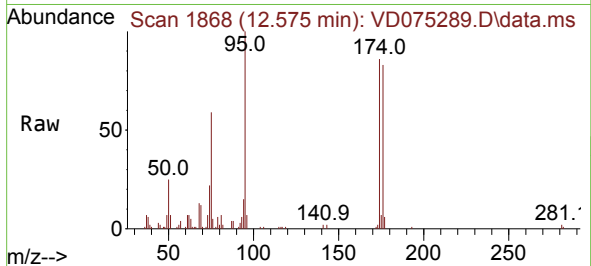




#76  
1,2,3-Trichloropropane  
Concen: 47.724 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.153 min  
Lab File: VD075289.D  
Acq: 09 Feb 2023 12:48

Instrument :  
MSVOA\_D  
ClientSampleId :  
TWM-TP14-020823

Tgt Ion: 75 Resp: 26151  
Ion Ratio Lower Upper  
75 100  
77 0.5 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 150.518 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.106 min  
Lab File: VD075289.D  
Acq: 09 Feb 2023 12:48

Tgt Ion: 75 Resp: 26151  
Ion Ratio Lower Upper  
75 100  
53 0.0 70.5 105.7#  
89 0.0 34.6 52.0#

