

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD032124\  
 Data File : VD078732.D  
 Acq On : 21 Mar 2024 18:58  
 Operator : RP/MD  
 Sample : P1830-04  
 Misc : 5.00G/5ml/MSVOA\_D/SOIL/A  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Mar 22 06:58:14 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031424S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 15 05:38:03 2024  
 Response via : Initial Calibration

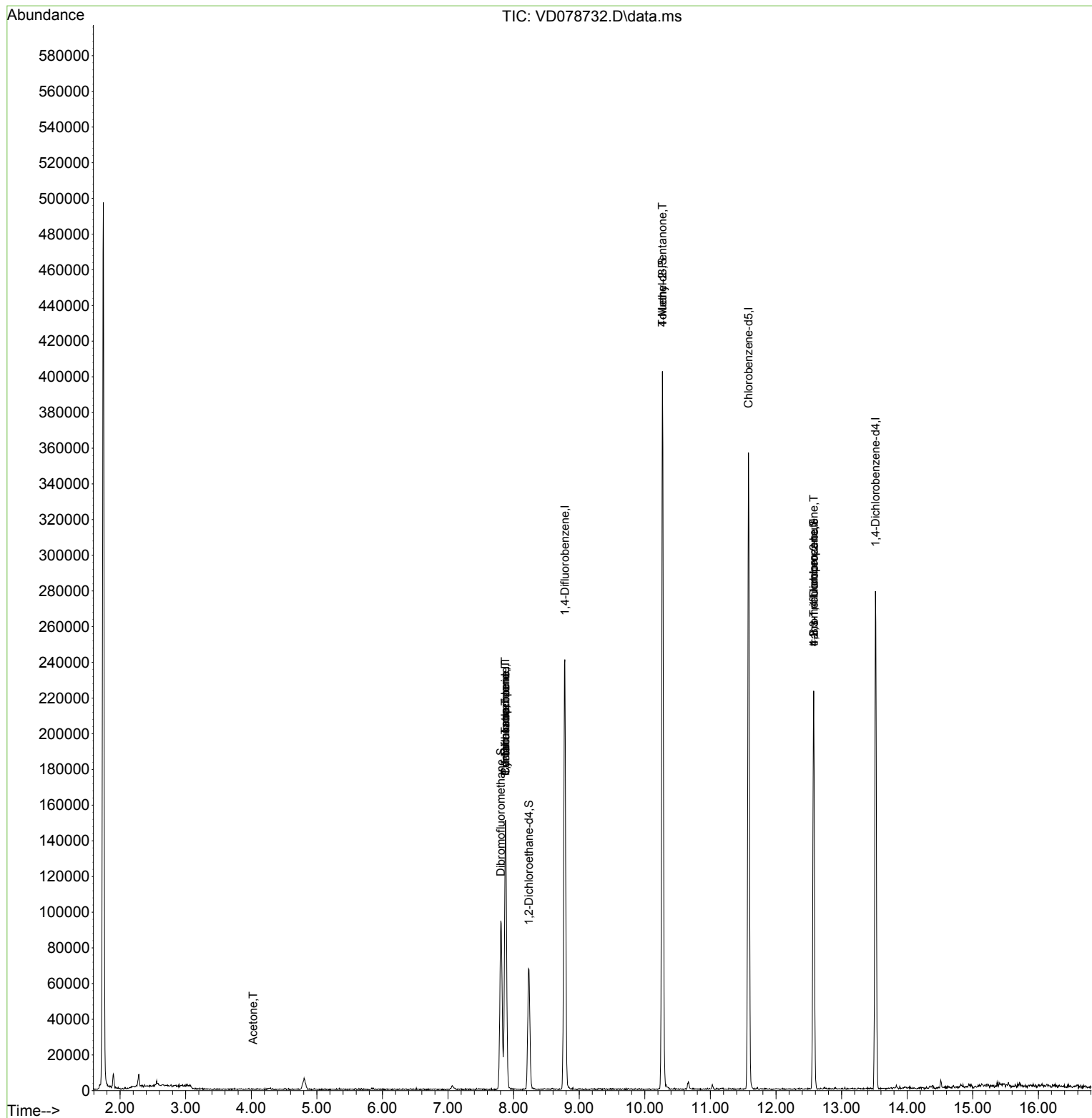
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.875  | 168   | 116091   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.781  | 114   | 225276   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.581 | 117   | 209240   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 76582    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.234  | 65    | 53549    | 49.220    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 98.440%  |
| 35) Dibromofluoromethane      | 7.805  | 113   | 69979    | 48.247    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 96.500%  |
| 50) Toluene-d8                | 10.269 | 98    | 275703   | 51.685    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 103.380% |
| 62) 4-Bromofluorobenzene      | 12.575 | 95    | 66423    | 42.563    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 85.120%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 16) Acetone                   | 4.028  | 43    | 498      | 2.367     | ug/l # | 39       |
| 20) Methylene Chloride        | 4.817  | 84    | 5161     | Below Cal | #      | 84       |
| 31) Cyclohexane               | 7.875  | 56    | 2576     | 1.409     | ug/l # | 14       |
| 36) 1,1-Dichloropropene       | 7.875  | 75    | 8620     | 4.096     | ug/l # | 47       |
| 38) Carbon Tetrachloride      | 7.875  | 117   | 11192    | 5.045     | ug/l # | 11       |
| 51) 4-Methyl-2-Pentanone      | 10.269 | 43    | 928      | 1.420     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.575 | 75    | 34511    | 58.491    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.575 | 75    | 34511    | 122.607   | ug/l # | 19       |
| -----                         |        |       |          |           |        |          |

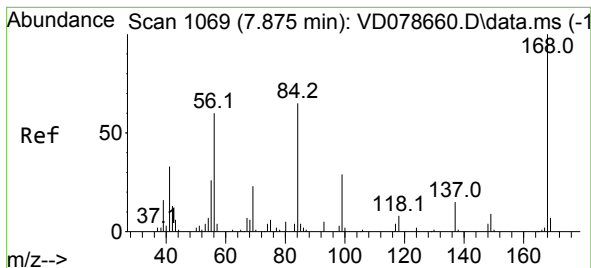
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
ClientSampleId :

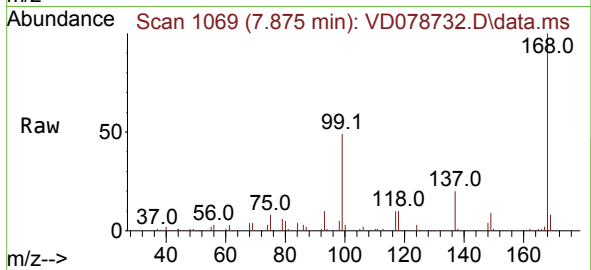
Quant Time: Mar 22 06:58:14 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031424S.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 15 05:38:03 2024  
Response via : Initial Calibration



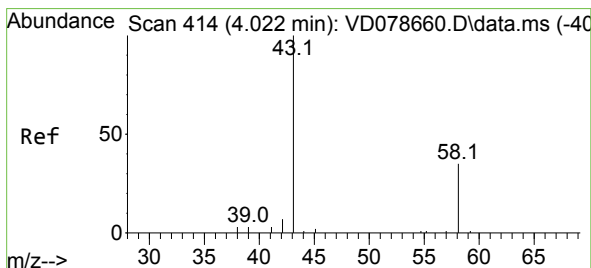
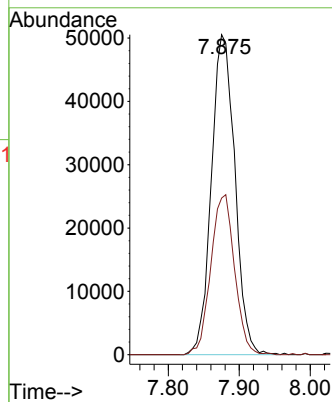
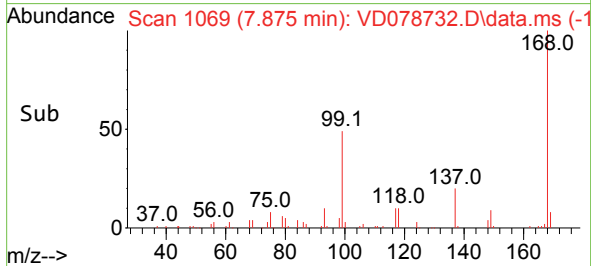


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VD078732.D  
Acq: 21 Mar 2024 18:58

Instrument :  
MSVOA\_D  
ClientSampleId :

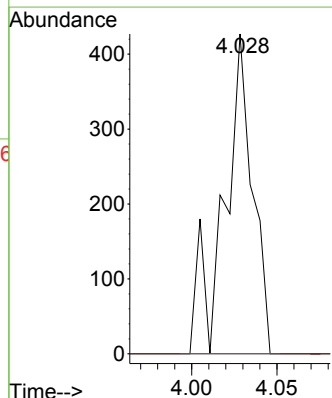
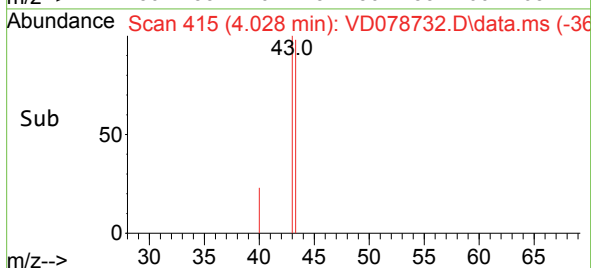
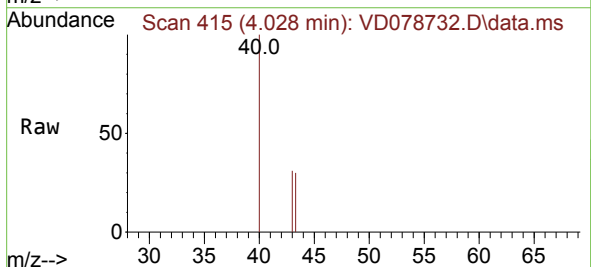


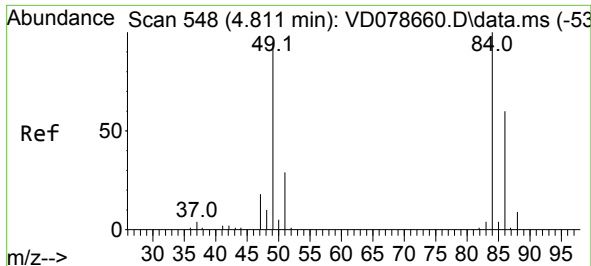
Tgt Ion:168 Resp: 116091  
Ion Ratio Lower Upper  
168 100  
99 48.9 38.8 58.2



#16  
Acetone  
Concen: 2.367 ug/l  
RT: 4.028 min Scan# 415  
Delta R.T. 0.006 min  
Lab File: VD078732.D  
Acq: 21 Mar 2024 18:58

Tgt Ion: 43 Resp: 498  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.2 42.4#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.817 min Scan# 54

Delta R.T. 0.006 min

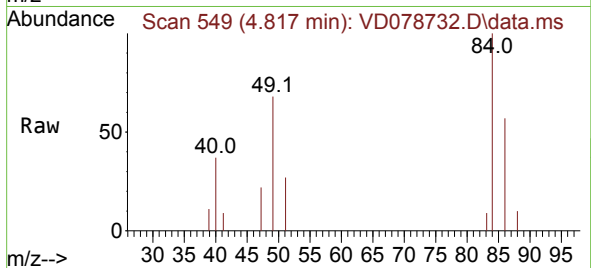
Lab File: VD078732.D

Acq: 21 Mar 2024 18:58

Instrument :

MSVOA\_D

ClientSampleId :



Tgt Ion: 84 Resp: 5161

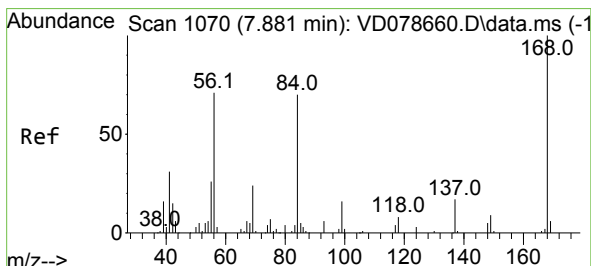
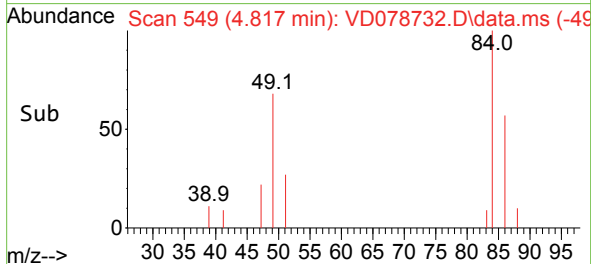
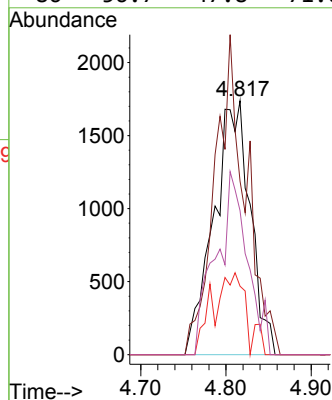
Ion Ratio Lower Upper

84 100

49 68.3 75.6 113.4#

51 27.0 23.4 35.0

86 56.7 47.8 71.6



#31

Cyclohexane

Concen: 1.409 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.006 min

Lab File: VD078732.D

Acq: 21 Mar 2024 18:58

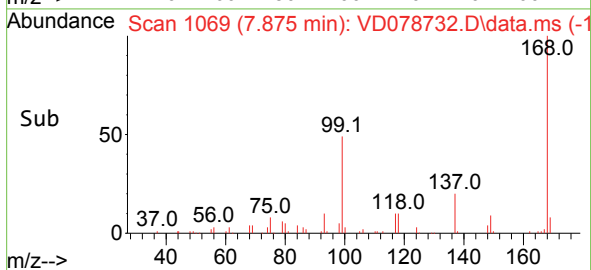
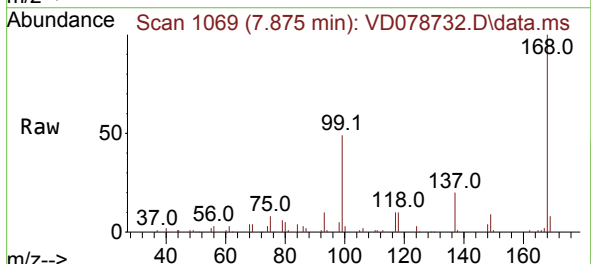
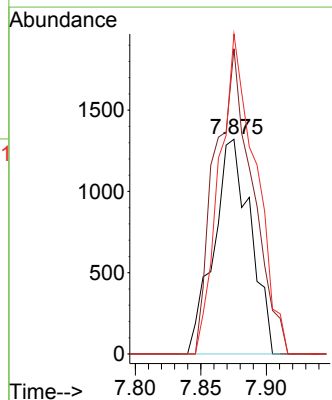
Tgt Ion: 56 Resp: 2576

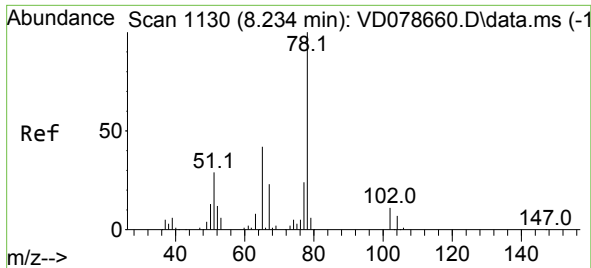
Ion Ratio Lower Upper

56 100

69 142.2 26.6 40.0#

84 149.1 79.4 119.2#

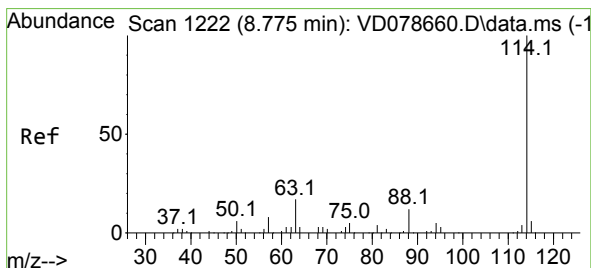
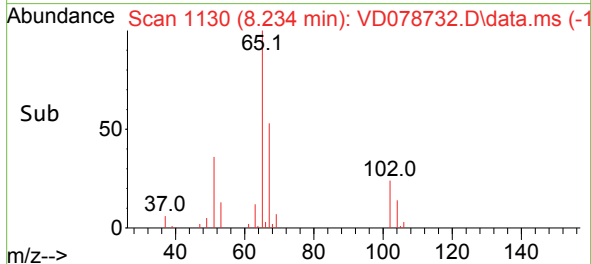
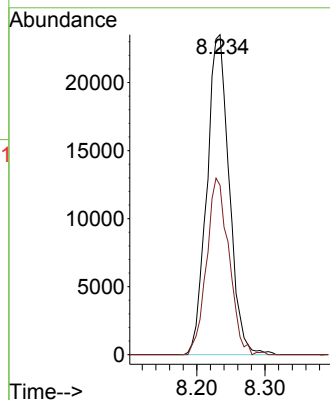
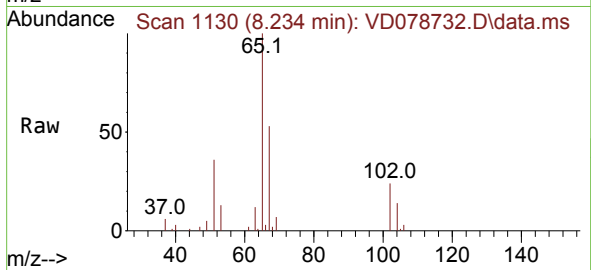




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.220 ug/l  
 RT: 8.234 min Scan# 1130  
 Delta R.T. 0.000 min  
 Lab File: VD078732.D  
 Acq: 21 Mar 2024 18:58

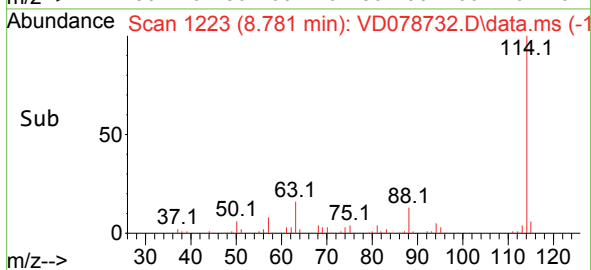
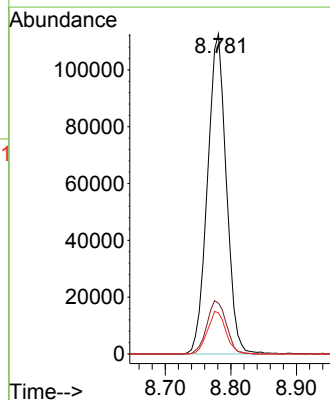
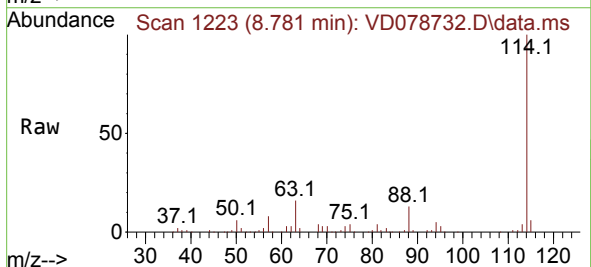
Instrument :  
 MSVOA\_D  
 ClientSampleId :

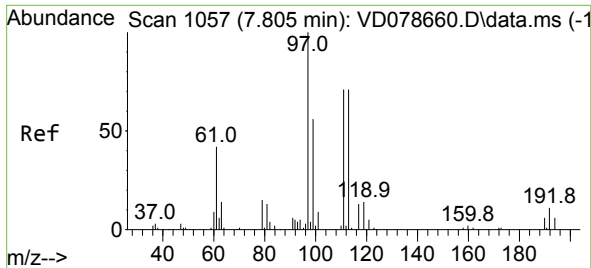
Tgt Ion: 65 Resp: 53549  
 Ion Ratio Lower Upper  
 65 100  
 67 55.2 0.0 110.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.781 min Scan# 1223  
 Delta R.T. 0.006 min  
 Lab File: VD078732.D  
 Acq: 21 Mar 2024 18:58

Tgt Ion: 114 Resp: 225276  
 Ion Ratio Lower Upper  
 114 100  
 63 15.9 0.0 33.4  
 88 12.8 0.0 24.6

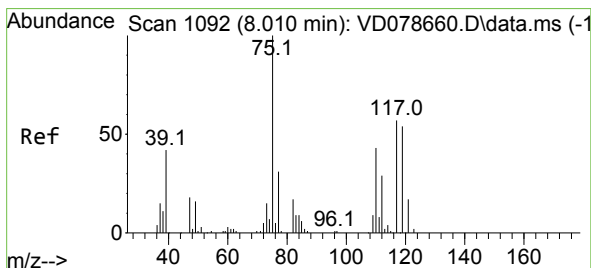
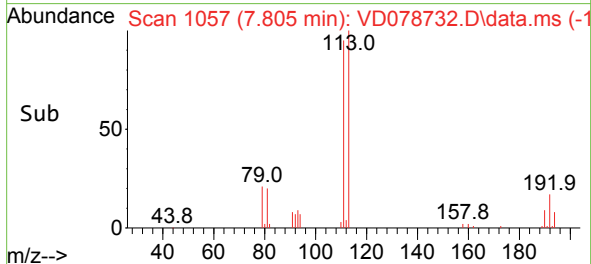
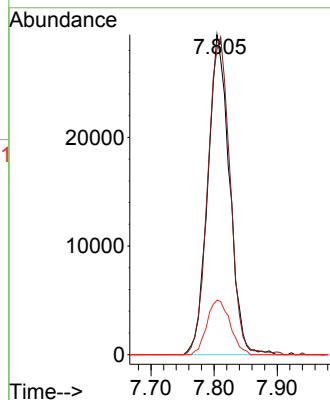
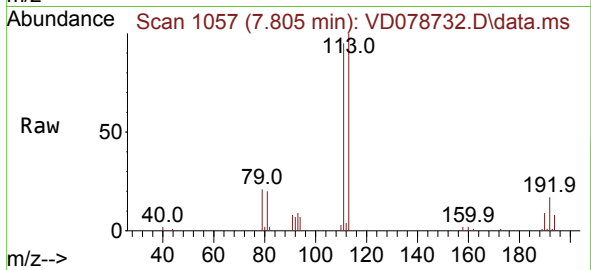




#35  
Dibromofluoromethane  
Concen: 48.247 ug/l  
RT: 7.805 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VD078732.D  
Acq: 21 Mar 2024 18:58

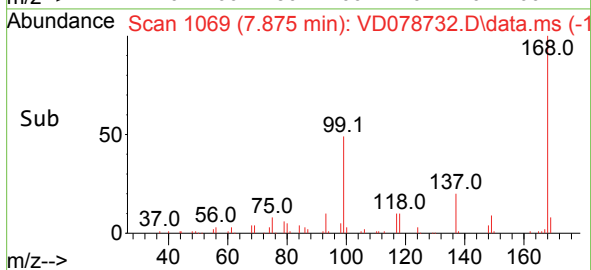
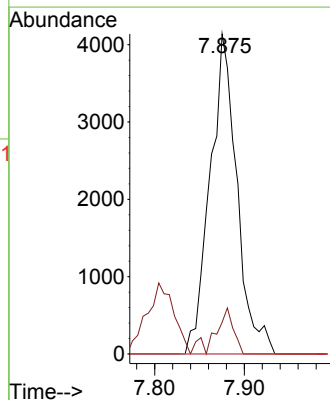
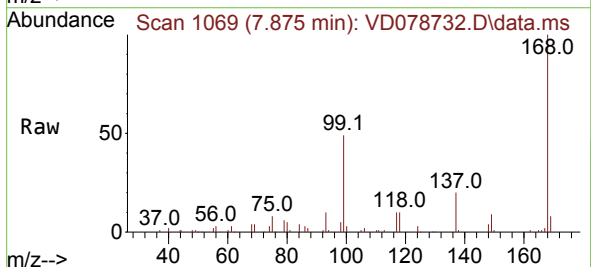
Instrument :  
MSVOA\_D  
ClientSampleId :

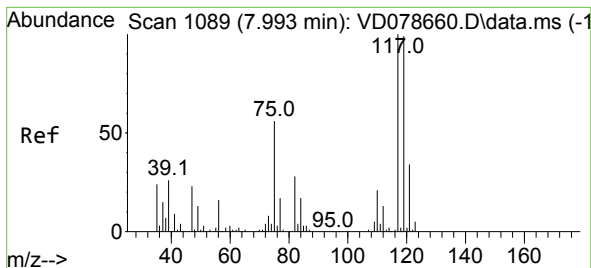
Tgt Ion:113 Resp: 69979  
Ion Ratio Lower Upper  
113 100  
111 102.3 81.9 122.9  
192 18.3 15.4 23.0



#36  
1,1-Dichloropropene  
Concen: 4.096 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.135 min  
Lab File: VD078732.D  
Acq: 21 Mar 2024 18:58

Tgt Ion: 75 Resp: 8620  
Ion Ratio Lower Upper  
75 100  
110 8.4 19.1 57.1#  
77 0.0 25.4 38.2#





#38

Carbon Tetrachloride

Concen: 5.045 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.118 min

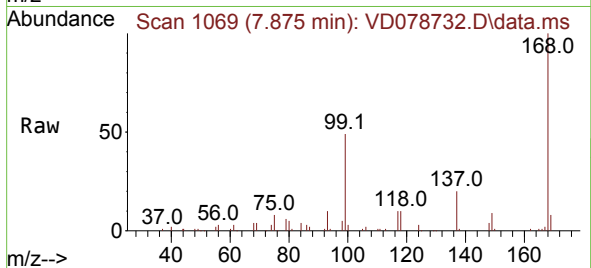
Lab File: VD078732.D

Acq: 21 Mar 2024 18:58

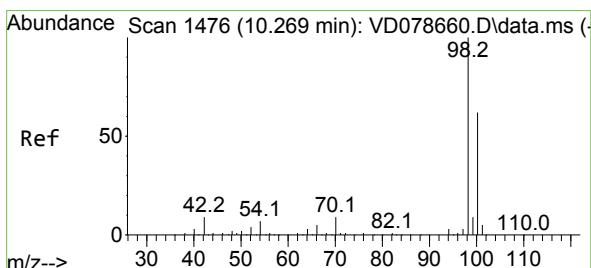
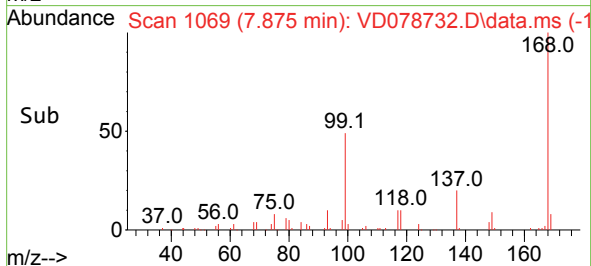
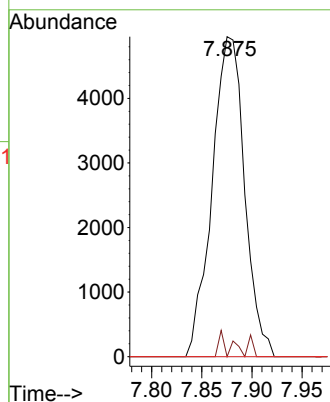
Instrument :

MSVOA\_D

ClientSampleId :



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 11192  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 0.0   | 79.2  | 118.8# |
| 121      | 0.0   | 26.8  | 40.2#  |



#50

Toluene-d8

Concen: 51.685 ug/l

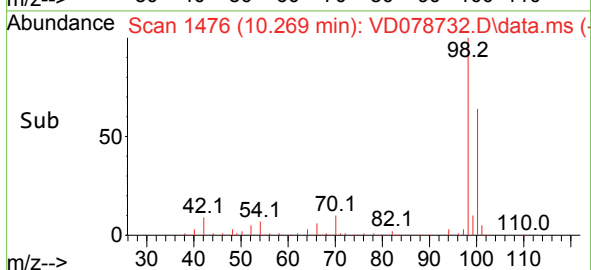
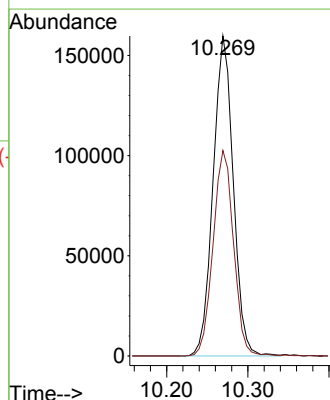
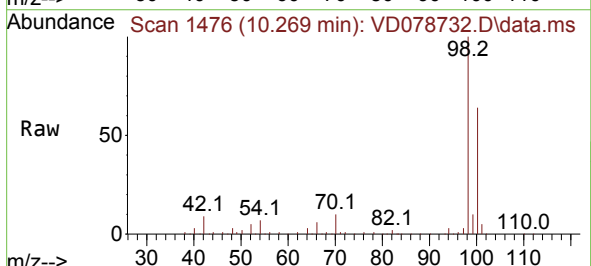
RT: 10.269 min Scan# 1476

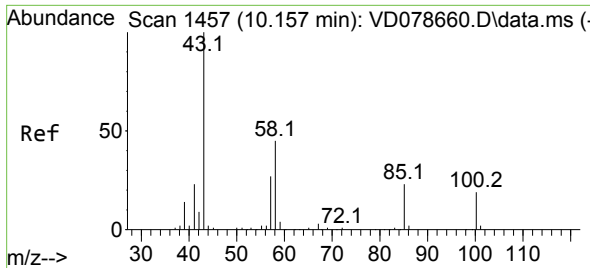
Delta R.T. 0.000 min

Lab File: VD078732.D

Acq: 21 Mar 2024 18:58

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 98    | Resp: | 275703 |
| Ion      | Ratio | Lower | Upper  |
| 98       | 100   |       |        |
| 100      | 65.2  | 50.5  | 75.7   |

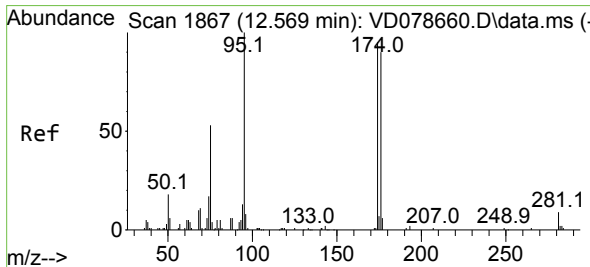
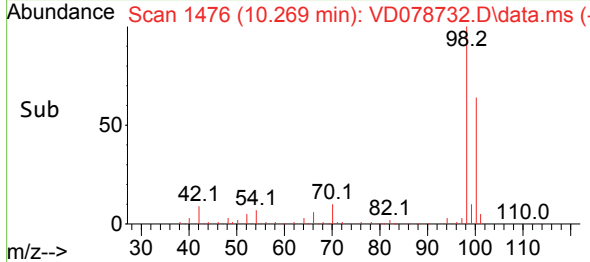
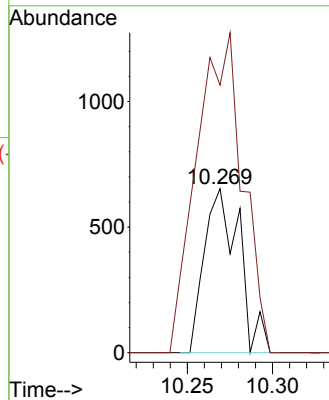
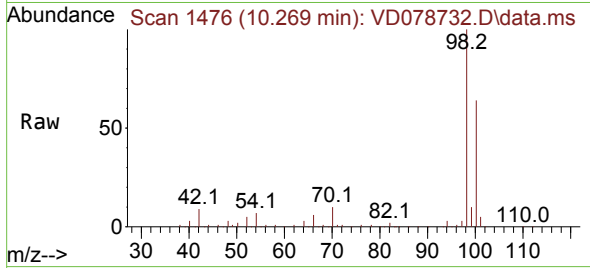




#51  
4-Methyl-2-Pentanone  
Concen: 1.420 ug/l  
RT: 10.269 min Scan# 1457  
Delta R.T. 0.112 min  
Lab File: VD078732.D  
Acq: 21 Mar 2024 18:58

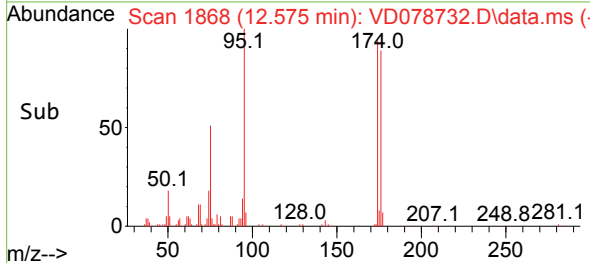
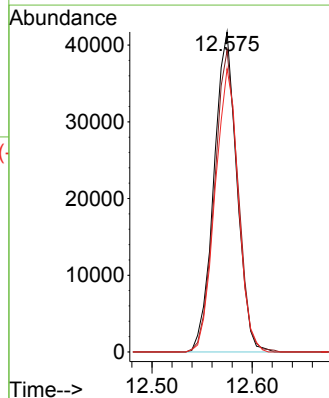
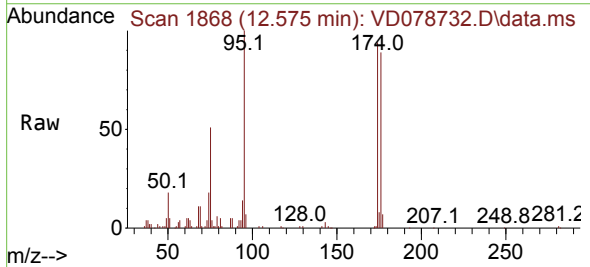
Instrument :  
MSVOA\_D  
ClientSampleId :

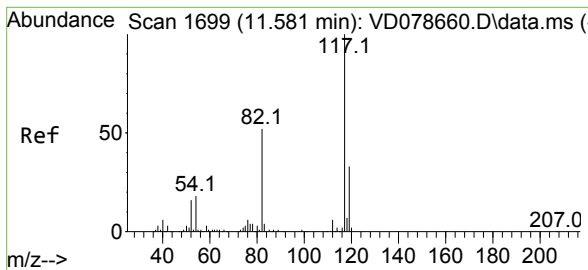
Tgt Ion: 43 Resp: 928  
Ion Ratio Lower Upper  
43 100  
58 258.2 36.4 54.6#



#62  
4-Bromofluorobenzene  
Concen: 42.563 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.006 min  
Lab File: VD078732.D  
Acq: 21 Mar 2024 18:58

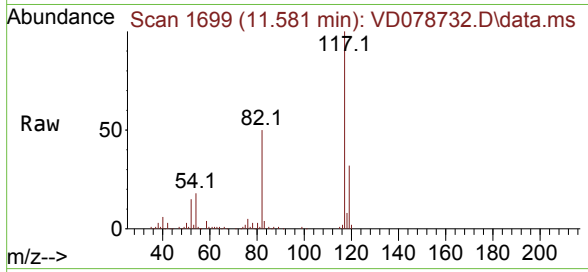
Tgt Ion: 95 Resp: 66423  
Ion Ratio Lower Upper  
95 100  
174 96.1 0.0 195.2  
176 89.9 0.0 188.2



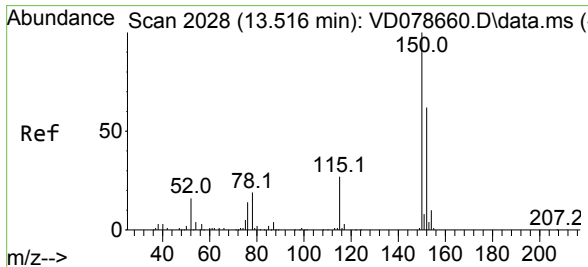
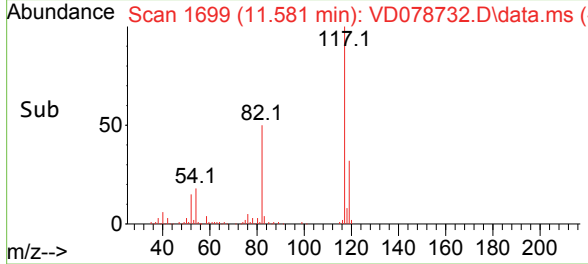
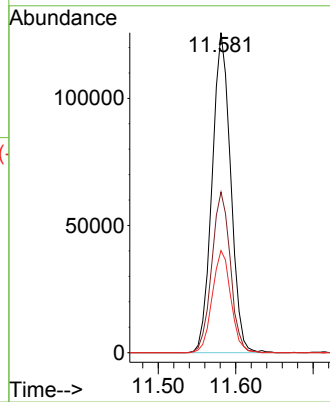


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VD078732.D  
Acq: 21 Mar 2024 18:58

Instrument :  
MSVOA\_D  
ClientSampleId :

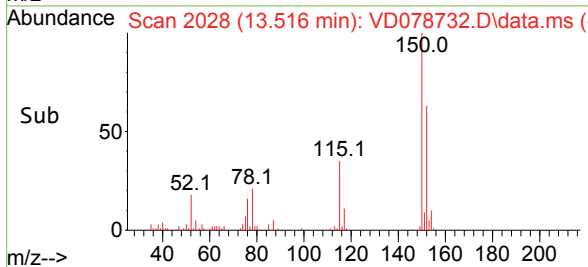
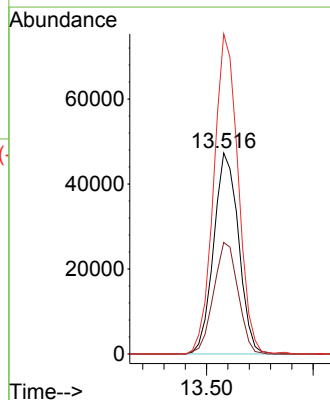
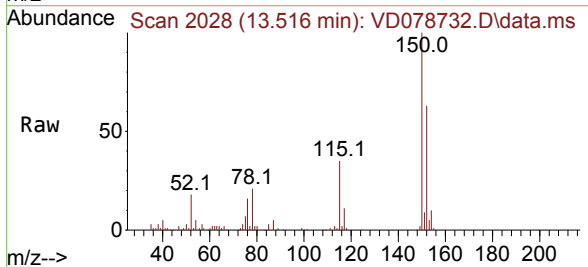


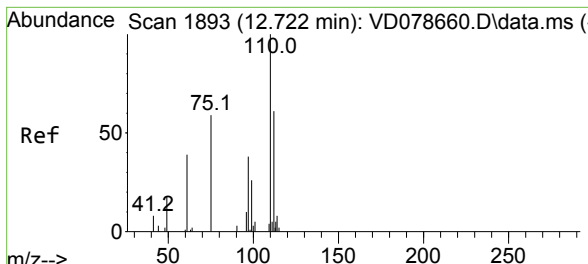
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 50.2  | 41.4  | 62.2  |
| 119     | 31.9  | 26.5  | 39.7  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.516 min Scan# 2028  
Delta R.T. 0.000 min  
Lab File: VD078732.D  
Acq: 21 Mar 2024 18:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.8  | 27.1  | 81.2  |
| 150     | 155.9 | 0.0   | 350.2 |

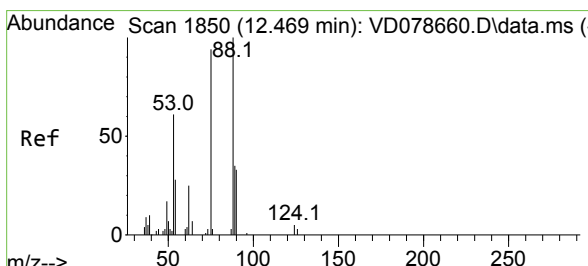
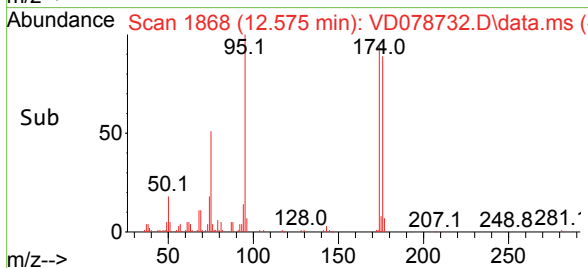
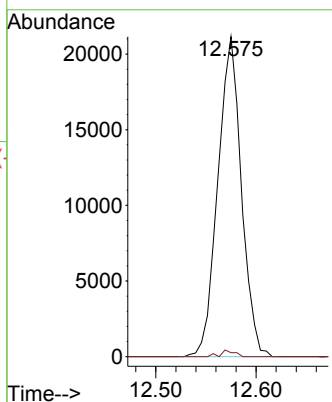
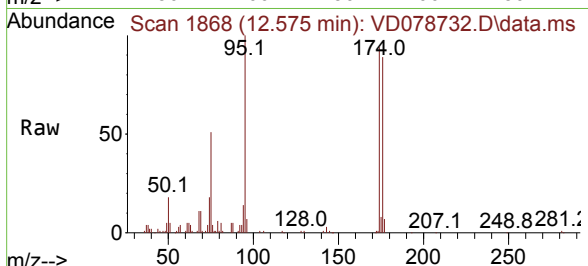




#76  
 1,2,3-Trichloropropane  
 Concen: 58.491 ug/l  
 RT: 12.575 min Scan# 1868  
 Delta R.T. -0.147 min  
 Lab File: VD078732.D  
 Acq: 21 Mar 2024 18:58

Instrument : MSVOA\_D  
 ClientSampleId :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 34511 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 77        | 1.2   | 0.0   | 0.0#  |



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 122.607 ug/l  
 RT: 12.575 min Scan# 1868  
 Delta R.T. 0.106 min  
 Lab File: VD078732.D  
 Acq: 21 Mar 2024 18:58

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 34511 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 53        | 0.0   | 61.0  | 91.6# |
| 89        | 0.2   | 35.4  | 53.0# |

