

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD032224\  
 Data File : VD078740.D  
 Acq On : 22 Mar 2024 14:01  
 Operator : RP/MD  
 Sample : P1827-02  
 Misc : 5.01G/5ml/MSVOA\_D/SOIL/A  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 72-11933

Quant Time: Mar 22 23:20:03 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

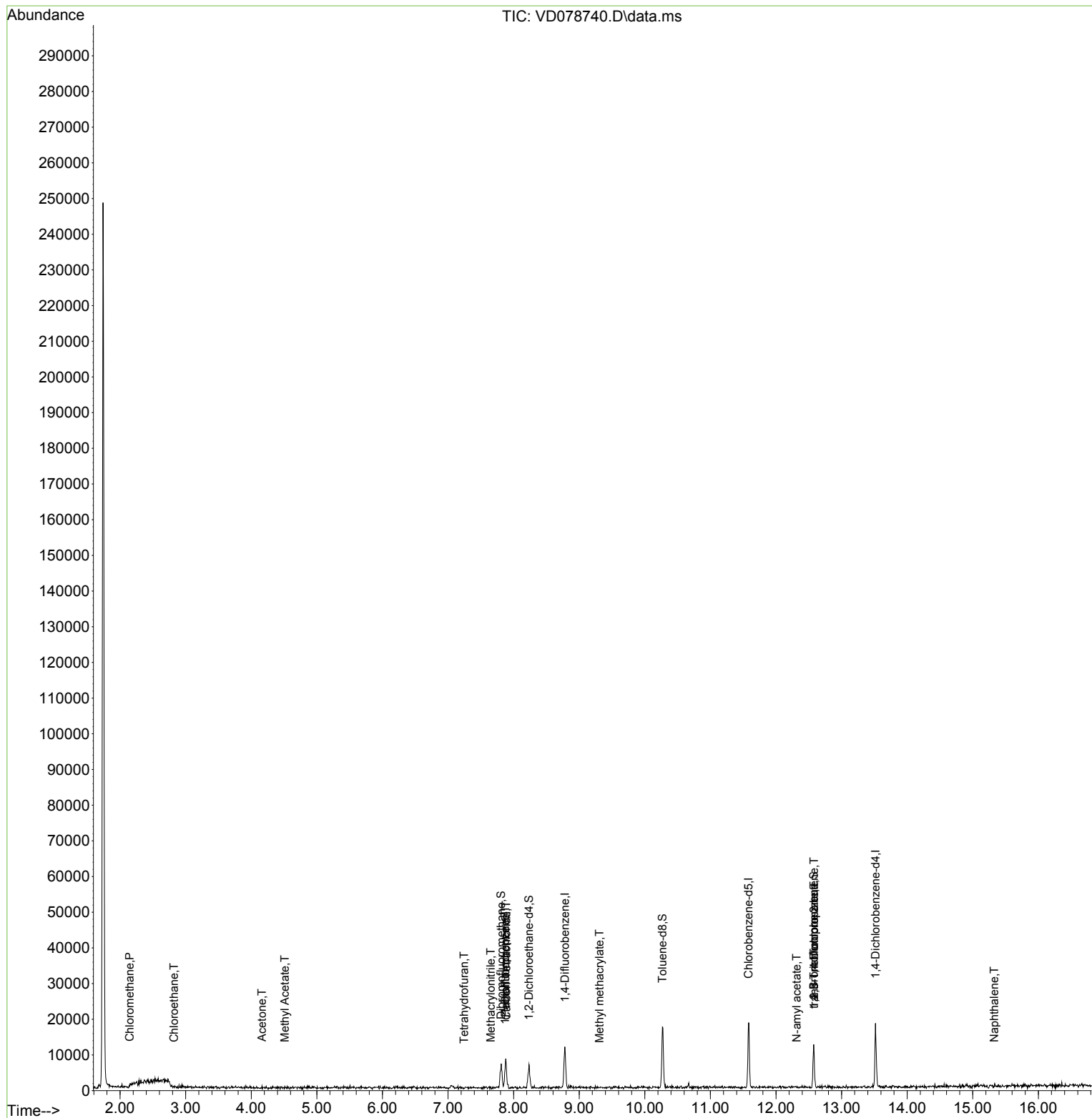
| Compound                      | R.T.   | QIon  | Response | Conc     | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------------|----------|
| -----                         |        |       |          |          |             |          |
| Internal Standards            |        |       |          |          |             |          |
| 1) Pentafluorobenzene         | 7.875  | 168   | 6630     | 50.000   | ug/l        | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.781  | 114   | 11880    | 50.000   | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.581 | 117   | 11254    | 50.000   | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 5401     | 50.000   | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |          |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.234  | 65    | 5085     | 81.839   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | = 163.680%# |          |
| 35) Dibromofluoromethane      | 7.811  | 113   | 4476     | 58.518   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | = 117.040%  |          |
| 50) Toluene-d8                | 10.269 | 98    | 12430    | 44.187   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery | = 88.380%   |          |
| 62) 4-Bromofluorobenzene      | 12.575 | 95    | 3694     | 44.886   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery | = 89.780%   |          |
| Target Compounds              |        |       |          |          |             |          |
|                               |        |       |          |          | Qvalue      |          |
| 3) Chloromethane              | 2.146  | 50    | 116      | 1.191    | ug/l        | # 43     |
| 6) Chloroethane               | 2.823  | 64    | 113      | 1.008    | ug/l        | # 41     |
| 16) Acetone                   | 4.164  | 43    | 54       | 4.494    | ug/l        | # 39     |
| 18) Methyl Acetate            | 4.511  | 43    | 85       | 3.296    | ug/l        | # 43     |
| 29) Tetrahydrofuran           | 7.246  | 42    | 120      | 13.812   | ug/l        | # 25     |
| 36) 1,1-Dichloropropene       | 7.869  | 75    | 176      | 1.586    | ug/l        | # 40     |
| 38) Carbon Tetrachloride      | 7.887  | 117   | 248      | 2.120    | ug/l        | # 11     |
| 41) Methacrylonitrile         | 7.652  | 41    | 65       | 3.421    | ug/l        | # 13     |
| 48) Methyl methacrylate       | 9.310  | 41    | 54       | 1.681    | ug/l        | # 12     |
| 74) N-amyl acetate            | 12.316 | 43    | 62       | 1.074    | ug/l        | # 36     |
| 76) 1,2,3-Trichloropropane    | 12.581 | 75    | 1816     | 43.642   | ug/l        | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.581 | 75    | 1816     | 91.480   | ug/l        | # 19     |
| 95) Naphthalene               | 15.328 | 128   | 266      | 1.636    | ug/l        | # 70     |
| -----                         |        |       |          |          |             |          |

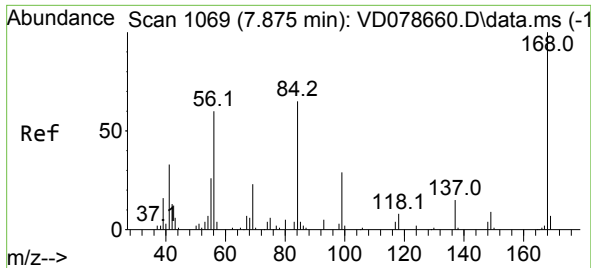
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : P1827-02  
Misc : 5.01G/5ml/MSVOA\_D/SOIL/A  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
72-11933

Quant Time: Mar 22 23:20:03 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

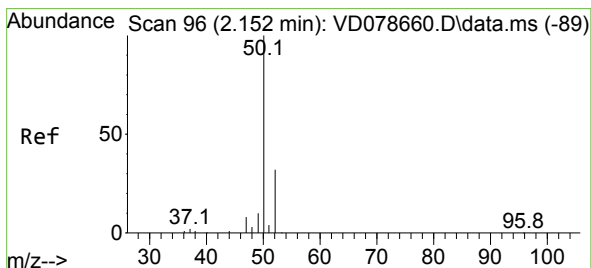
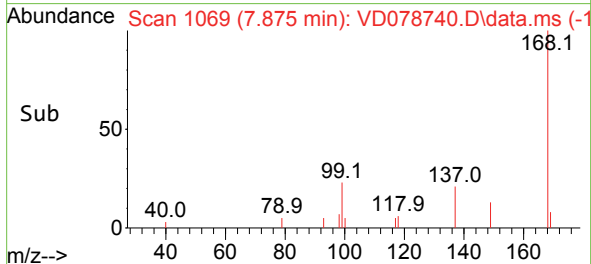
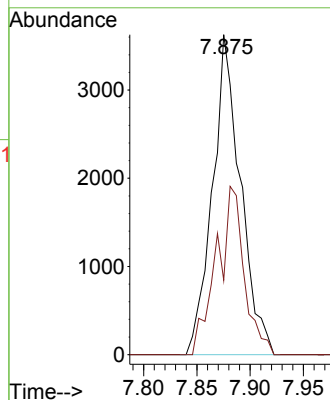
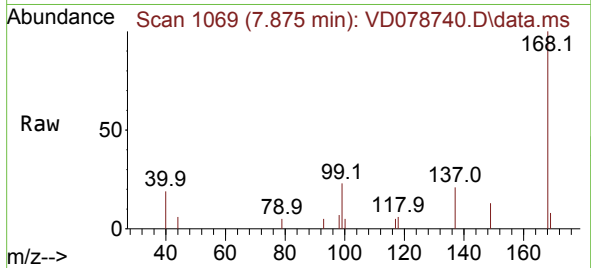




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VD078740.D  
Acq: 22 Mar 2024 14:01

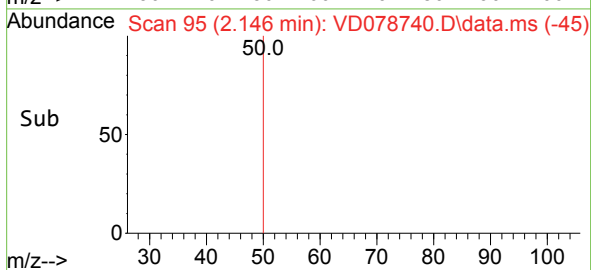
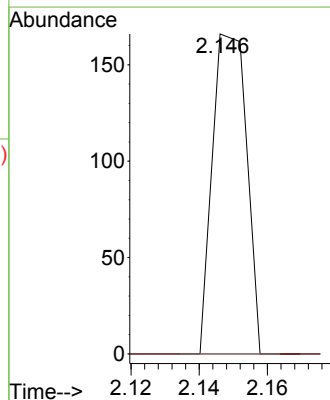
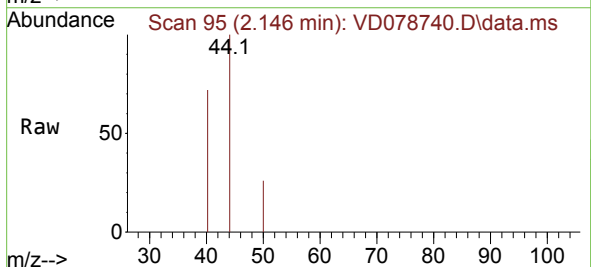
Instrument :  
MSVOA\_D  
ClientSampleId :  
72-11933

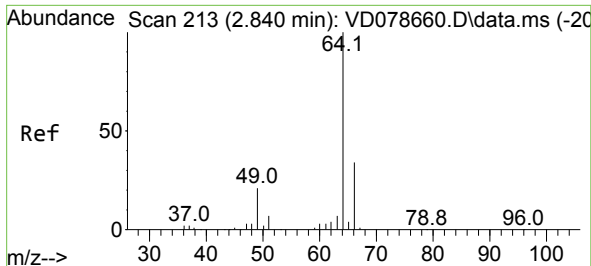
Tgt Ion:168 Resp: 6630  
Ion Ratio Lower Upper  
168 100  
99 23.2 38.8 58.2#



#3  
Chloromethane  
Concen: 1.191 ug/l  
RT: 2.146 min Scan# 95  
Delta R.T. -0.006 min  
Lab File: VD078740.D  
Acq: 22 Mar 2024 14:01

Tgt Ion: 50 Resp: 116  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.6 38.4#

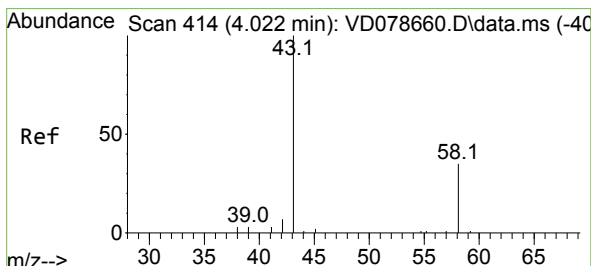
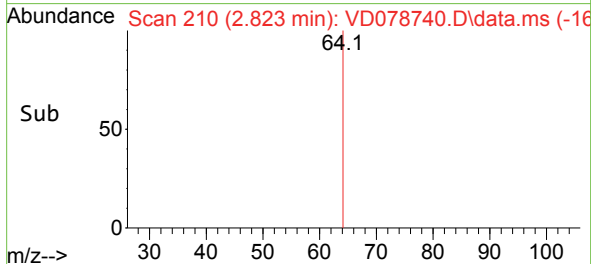
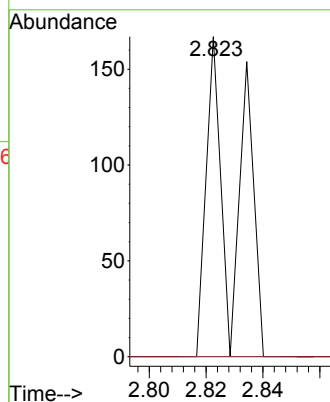
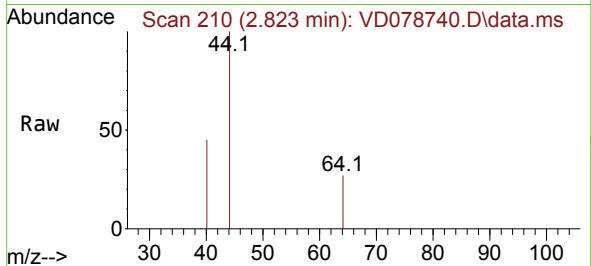




#6  
Chloroethane  
Concen: 1.008 ug/l  
RT: 2.823 min Scan# 21  
Delta R.T. -0.018 min  
Lab File: VD078740.D  
Acq: 22 Mar 2024 14:01

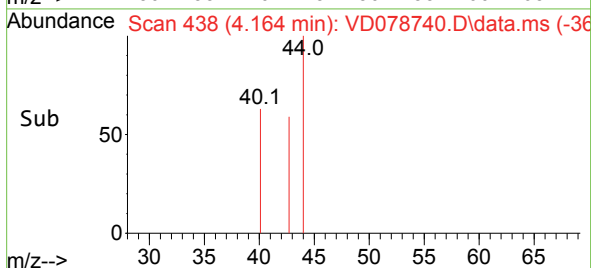
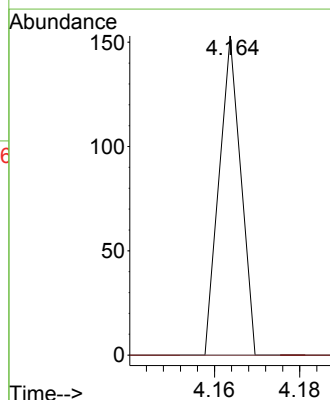
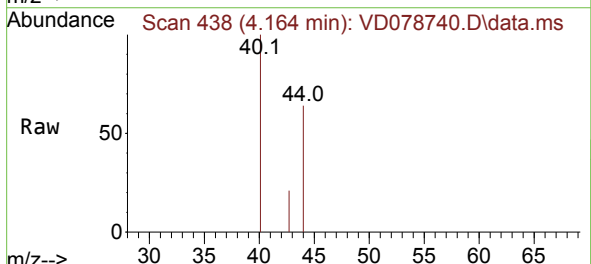
Instrument :  
MSVOA\_D  
ClientSampleId :  
72-11933

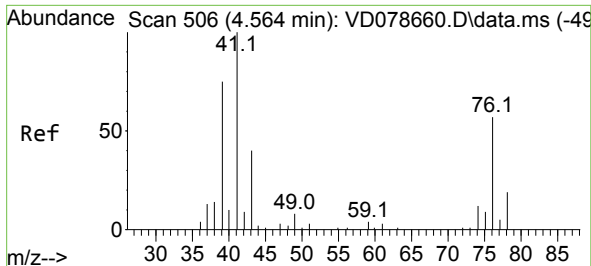
Tgt Ion: 64 Resp: 113  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.8 40.2#



#16  
Acetone  
Concen: 4.494 ug/l  
RT: 4.164 min Scan# 438  
Delta R.T. 0.141 min  
Lab File: VD078740.D  
Acq: 22 Mar 2024 14:01

Tgt Ion: 43 Resp: 54  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.2 42.4#

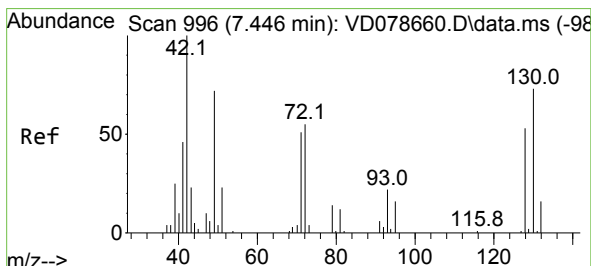
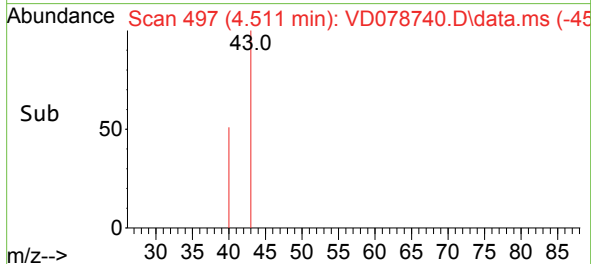
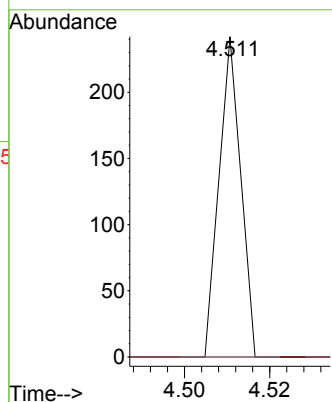
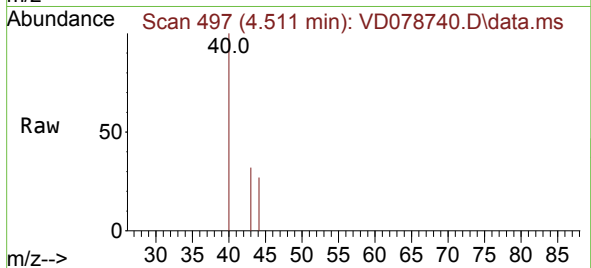




#18  
Methyl Acetate  
Concen: 3.296 ug/l  
RT: 4.511 min Scan# 497  
Delta R.T. -0.053 min  
Lab File: VD078740.D  
Acq: 22 Mar 2024 14:01

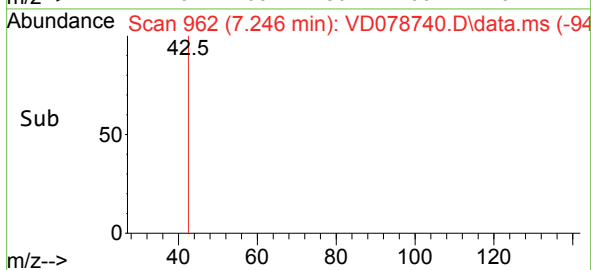
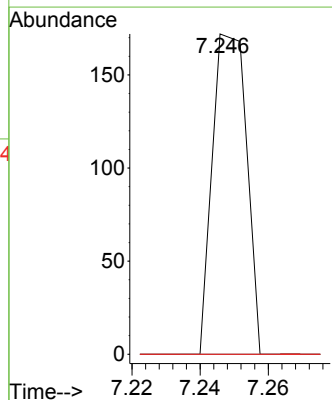
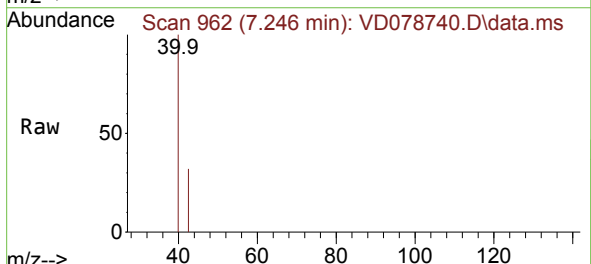
Instrument :  
MSVOA\_D  
ClientSampleId :  
72-11933

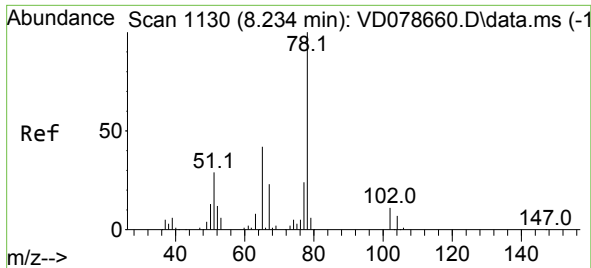
Tgt Ion: 43 Resp: 85  
Ion Ratio Lower Upper  
43 100  
74 0.0 25.3 37.9#



#29  
Tetrahydrofuran  
Concen: 13.812 ug/l  
RT: 7.246 min Scan# 962  
Delta R.T. -0.200 min  
Lab File: VD078740.D  
Acq: 22 Mar 2024 14:01

Tgt Ion: 42 Resp: 120  
Ion Ratio Lower Upper  
42 100  
72 0.0 43.8 65.6#  
71 0.0 42.0 63.0#

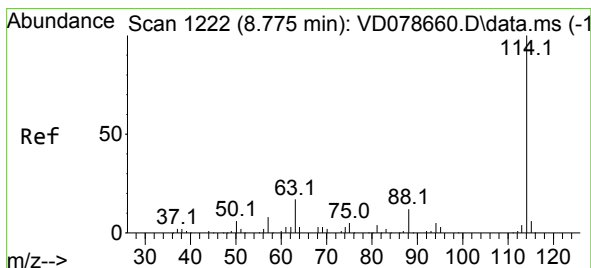
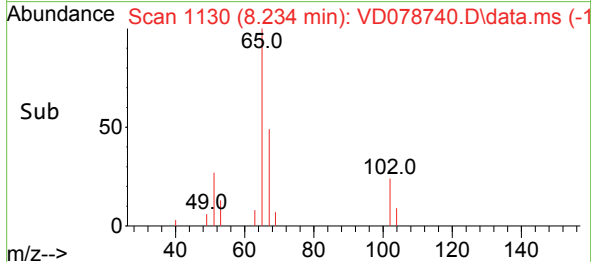
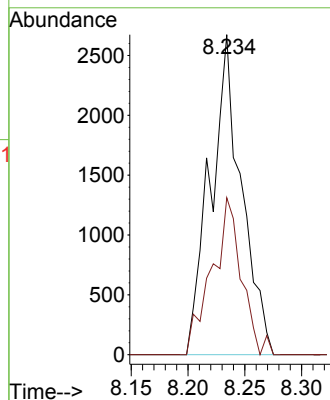
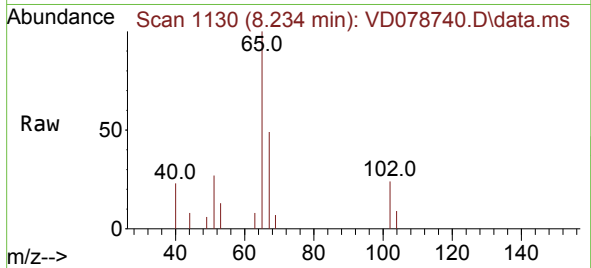




#33  
 1,2-Dichloroethane-d4  
 Concen: 81.839 ug/l  
 RT: 8.234 min Scan# 1130  
 Delta R.T. 0.000 min  
 Lab File: VD078740.D  
 Acq: 22 Mar 2024 14:01

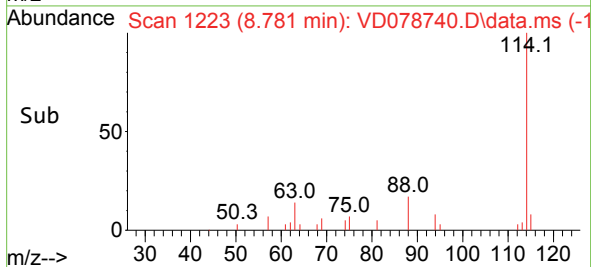
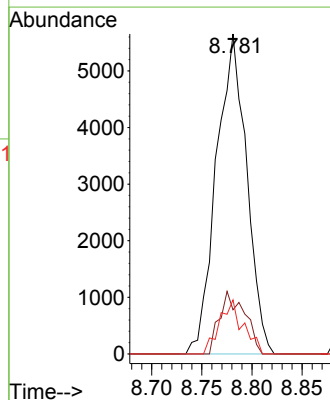
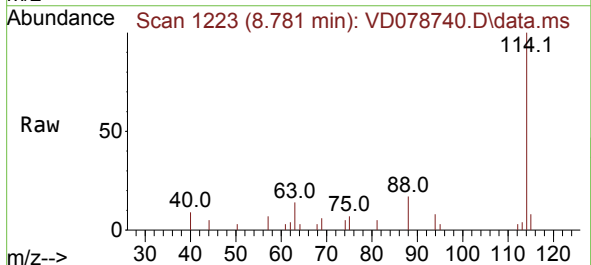
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 72-11933

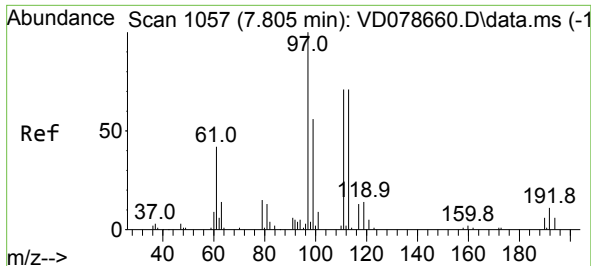
Tgt Ion: 65 Resp: 5085  
 Ion Ratio Lower Upper  
 65 100  
 67 46.8 0.0 110.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.781 min Scan# 1223  
 Delta R.T. 0.006 min  
 Lab File: VD078740.D  
 Acq: 22 Mar 2024 14:01

Tgt Ion: 114 Resp: 11880  
 Ion Ratio Lower Upper  
 114 100  
 63 13.8 0.0 33.4  
 88 16.9 0.0 24.6





#35

Dibromofluoromethane

Concen: 58.518 ug/l

RT: 7.811 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VD078740.D

Acq: 22 Mar 2024 14:01

Instrument :

MSVOA\_D

ClientSampleId :

72-11933

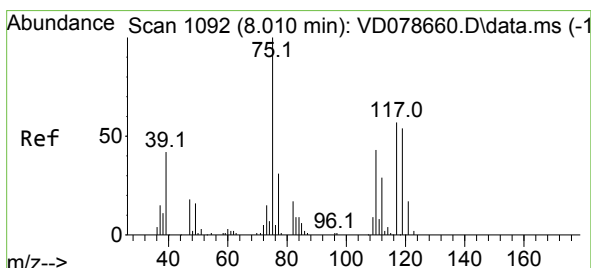
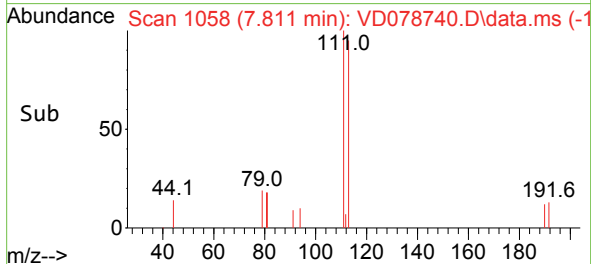
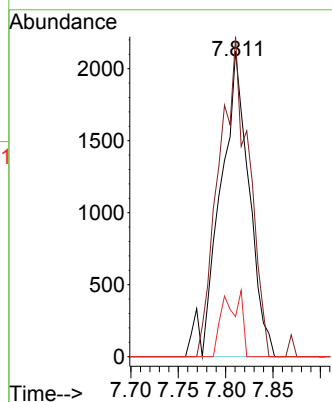
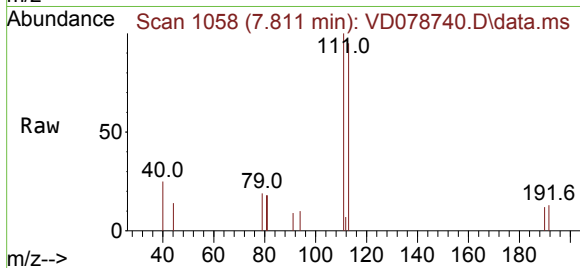
Tgt Ion:113 Resp: 4476

Ion Ratio Lower Upper

113 100

111 109.0 81.9 122.9

192 13.6 15.4 23.0#



#36

1,1-Dichloropropene

Concen: 1.586 ug/l

RT: 7.869 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VD078740.D

Acq: 22 Mar 2024 14:01

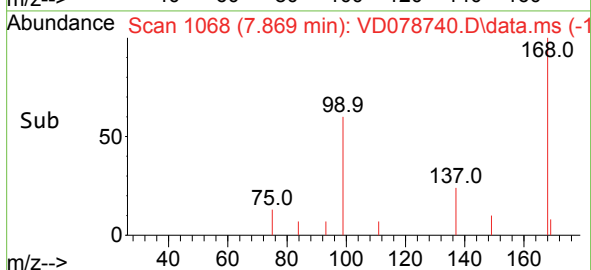
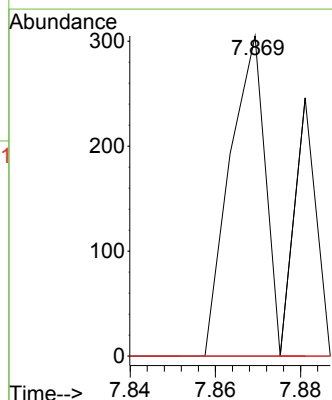
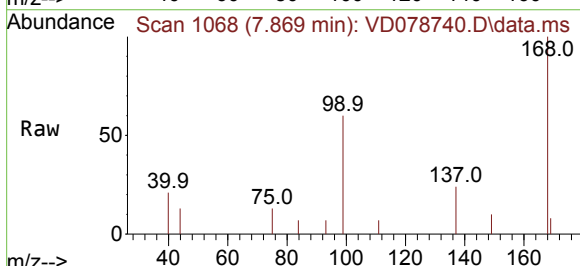
Tgt Ion: 75 Resp: 176

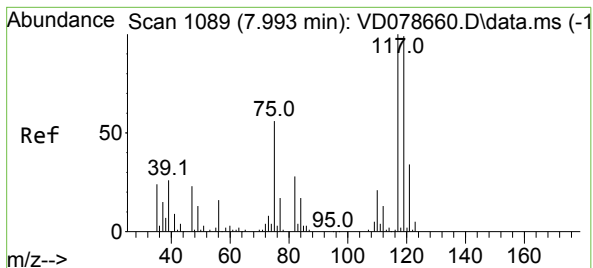
Ion Ratio Lower Upper

75 100

110 0.0 19.1 57.1#

77 0.0 25.4 38.2#





#38

Carbon Tetrachloride

Concen: 2.120 ug/l

RT: 7.887 min Scan# 1031

Delta R.T. -0.106 min

Lab File: VD078740.D

Acq: 22 Mar 2024 14:01

Instrument :

MSVOA\_D

ClientSampleId :

72-11933

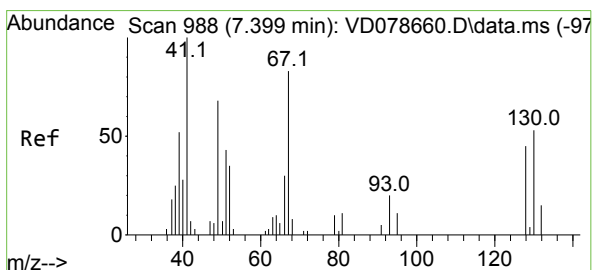
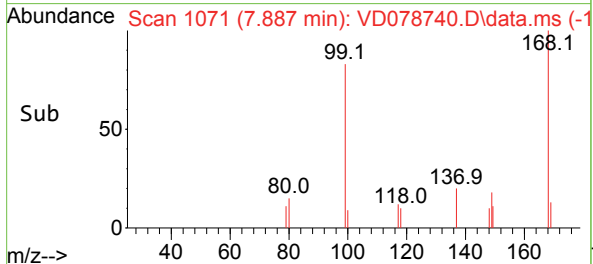
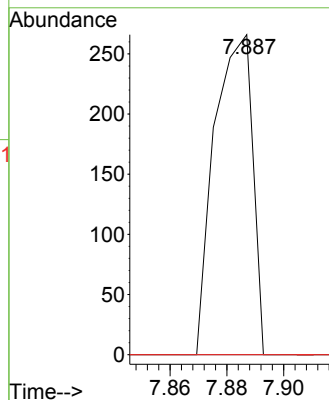
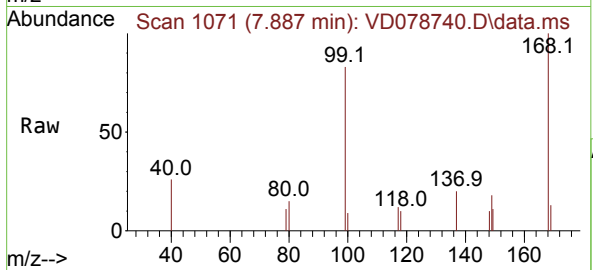
Tgt Ion:117 Resp: 248

Ion Ratio Lower Upper

117 100

119 0.0 79.2 118.8#

121 0.0 26.8 40.2#



#41

Methacrylonitrile

Concen: 3.421 ug/l

RT: 7.652 min Scan# 1031

Delta R.T. 0.253 min

Lab File: VD078740.D

Acq: 22 Mar 2024 14:01

Tgt Ion: 41 Resp: 65

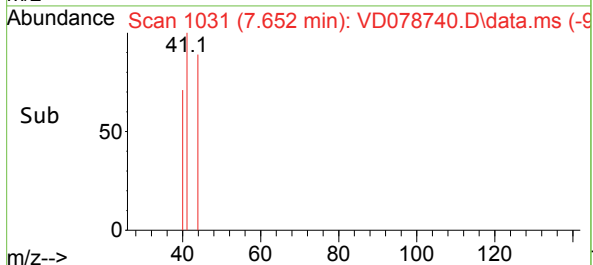
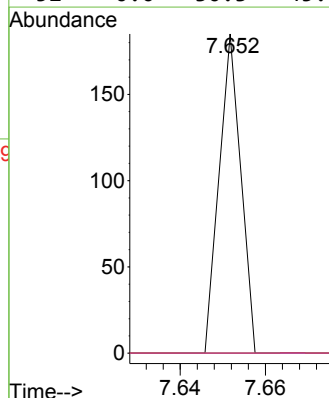
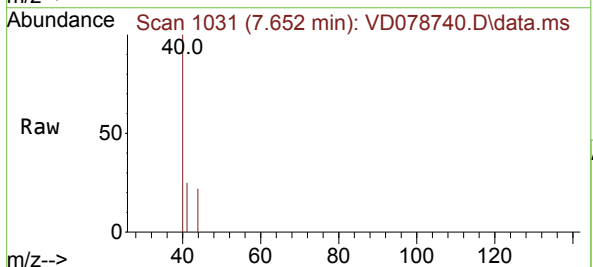
Ion Ratio Lower Upper

41 100

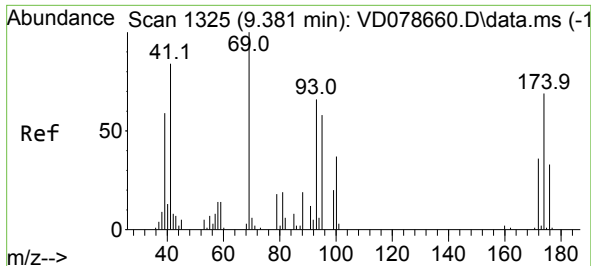
39 0.0 39.8 59.6#

67 0.0 83.5 125.3#

52 0.0 30.3 45.5#



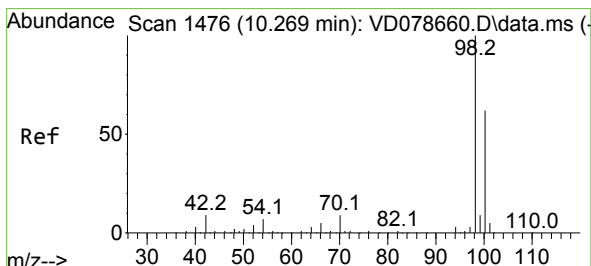
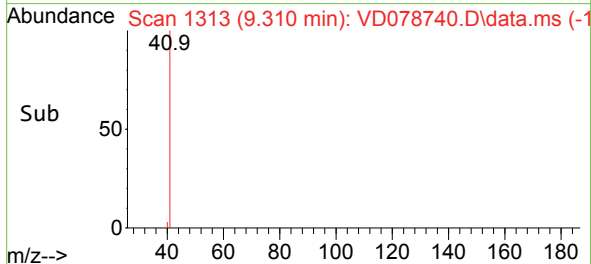
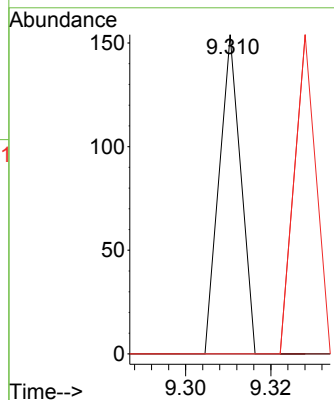
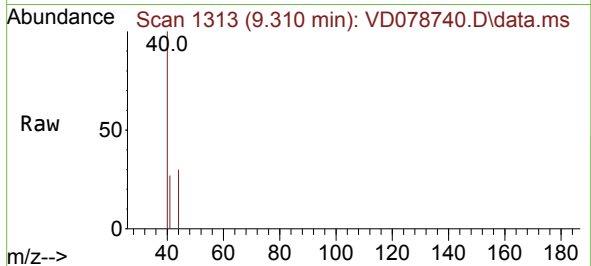




#48  
Methyl methacrylate  
Concen: 1.681 ug/l  
RT: 9.310 min Scan# 11  
Delta R.T. -0.071 min  
Lab File: VD078740.D  
Acq: 22 Mar 2024 14:01

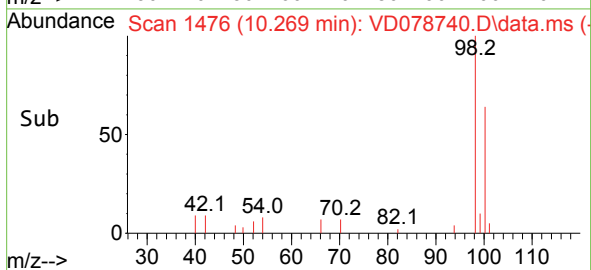
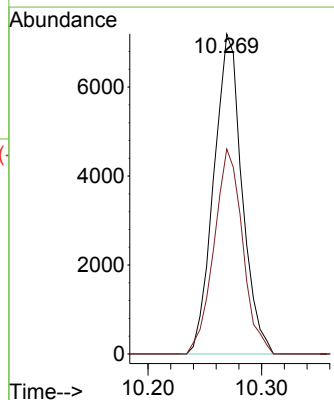
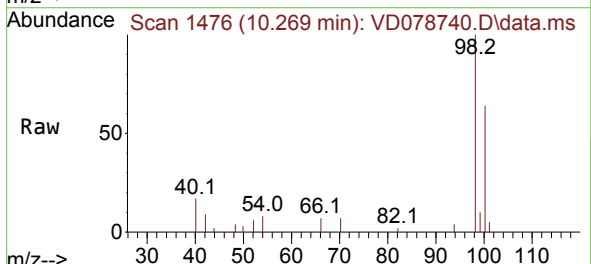
Instrument :  
MSVOA\_D  
ClientSampleId :  
72-11933

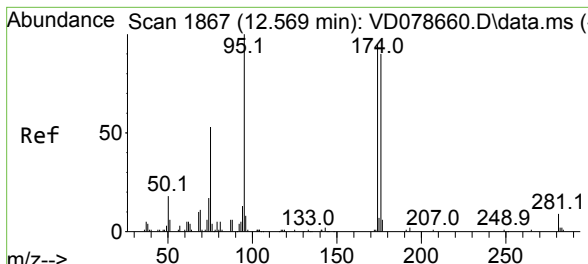
Tgt Ion: 41 Resp: 54  
Ion Ratio Lower Upper  
41 100  
69 0.0 88.3 132.5#  
39 100.0 46.6 69.8#



#50  
Toluene-d8  
Concen: 44.187 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VD078740.D  
Acq: 22 Mar 2024 14:01

Tgt Ion: 98 Resp: 12430  
Ion Ratio Lower Upper  
98 100  
100 65.0 50.5 75.7

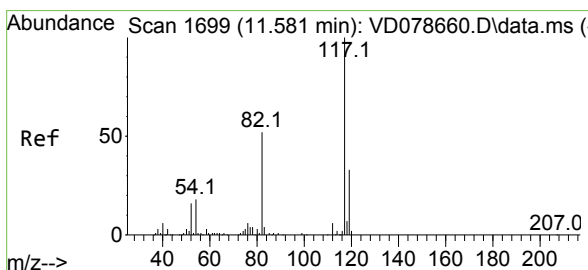
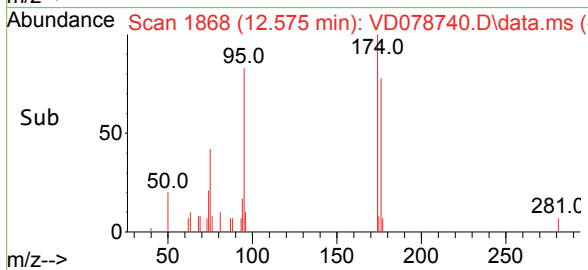
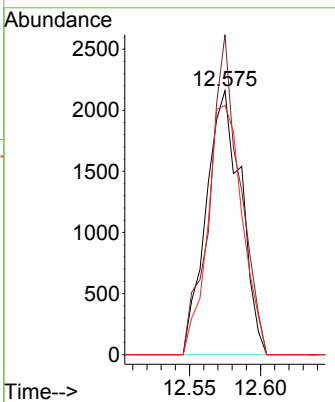
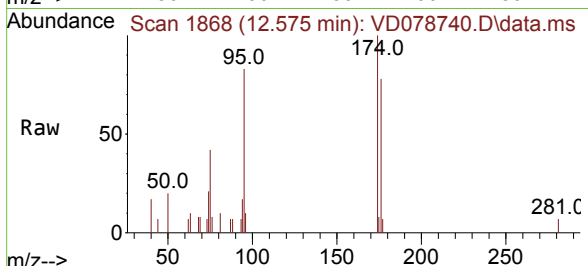




#62  
 4-Bromofluorobenzene  
 Concen: 44.886 ug/l  
 RT: 12.575 min Scan# 1868  
 Delta R.T. 0.006 min  
 Lab File: VD078740.D  
 Acq: 22 Mar 2024 14:01

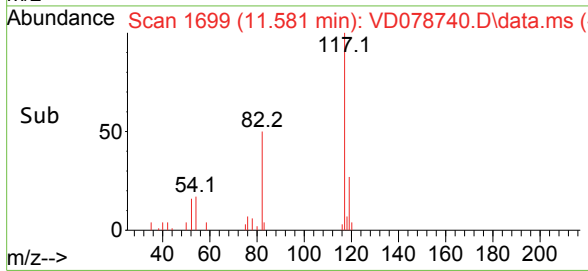
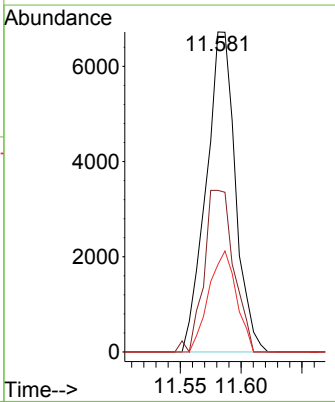
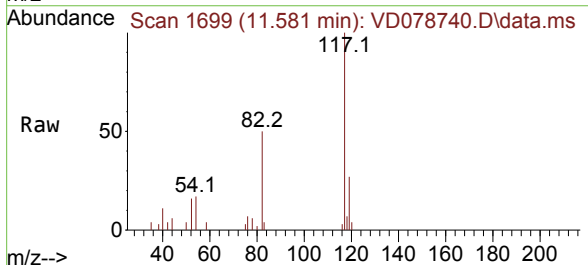
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 72-11933

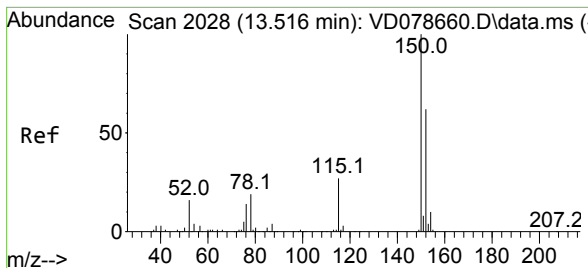
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 3694  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 104.9 | 0.0   | 195.2 |
| 176      | 93.9  | 0.0   | 188.2 |



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.581 min Scan# 1699  
 Delta R.T. 0.000 min  
 Lab File: VD078740.D  
 Acq: 22 Mar 2024 14:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 11254 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 50.5  | 41.4  | 62.2  |
| 119      | 27.3  | 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: VD078740.D

Acq: 22 Mar 2024 14:01

Instrument :

MSVOA\_D

ClientSampleId :

72-11933

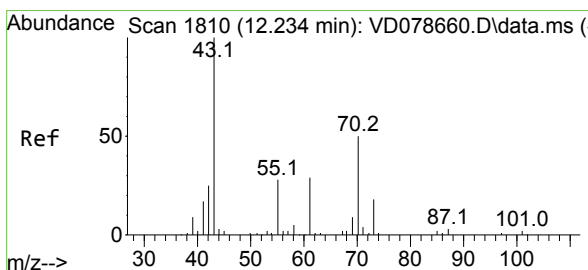
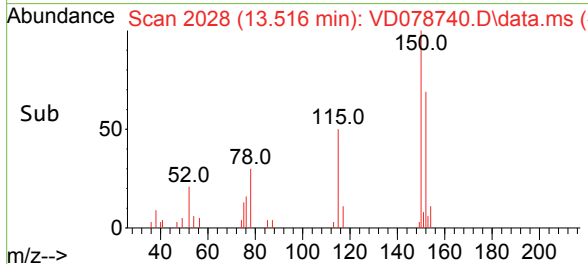
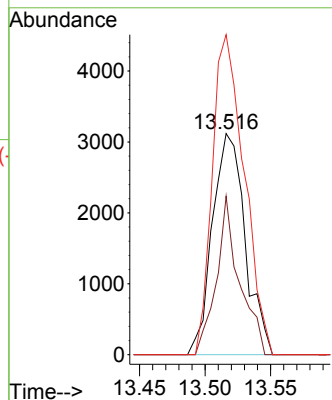
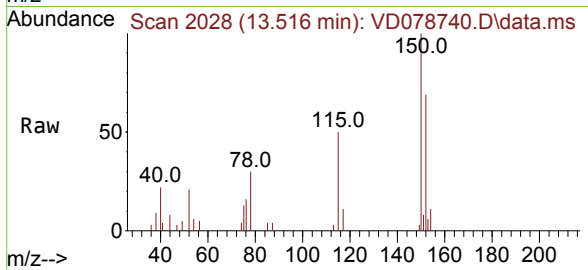
Tgt Ion:152 Resp: 5401

Ion Ratio Lower Upper

152 100

115 50.5 27.1 81.2

150 141.0 0.0 350.2



#74

N-ethyl acetate

Concen: 1.074 ug/l

RT: 12.316 min Scan# 1824

Delta R.T. 0.082 min

Lab File: VD078740.D

Acq: 22 Mar 2024 14:01

Tgt Ion: 43 Resp: 62

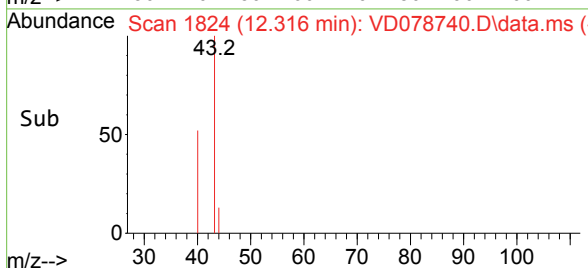
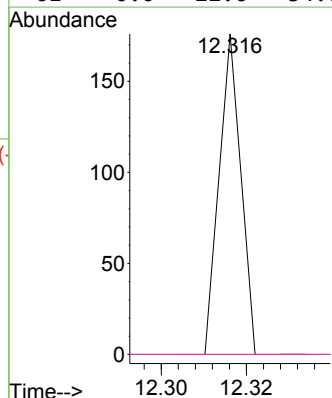
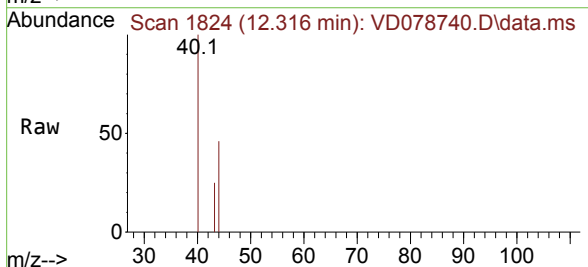
Ion Ratio Lower Upper

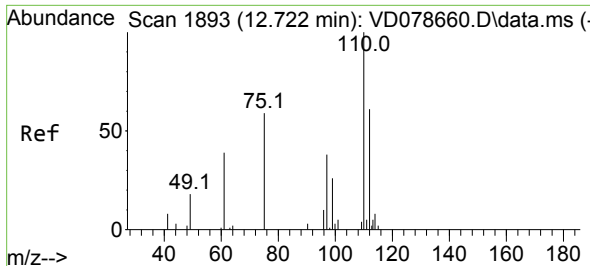
43 100

70 0.0 42.1 63.1#

55 0.0 22.6 33.8#

61 0.0 22.6 34.0#

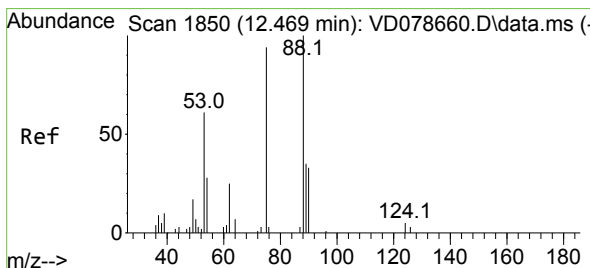
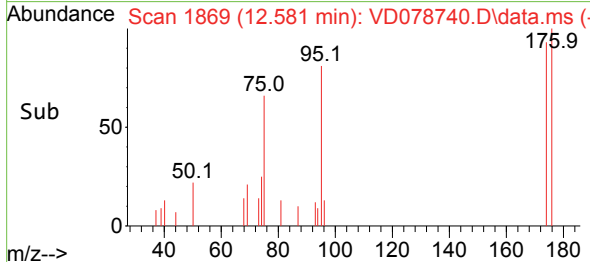
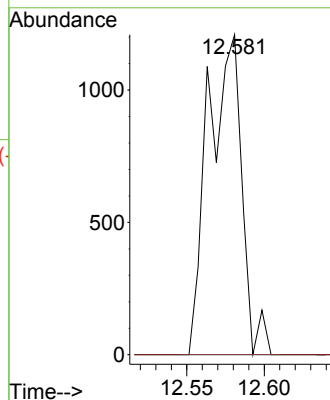
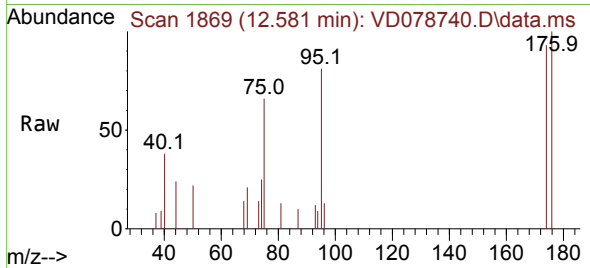




#76  
1,2,3-Trichloropropane  
Concen: 43.642 ug/l  
RT: 12.581 min Scan# 1869  
Delta R.T. -0.141 min  
Lab File: VD078740.D  
Acq: 22 Mar 2024 14:01

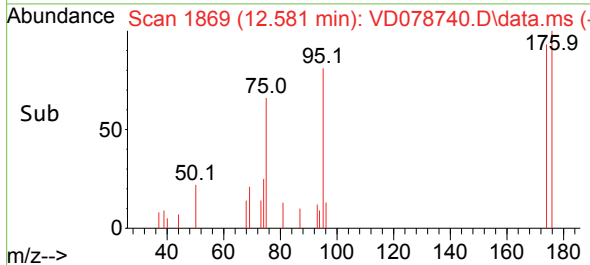
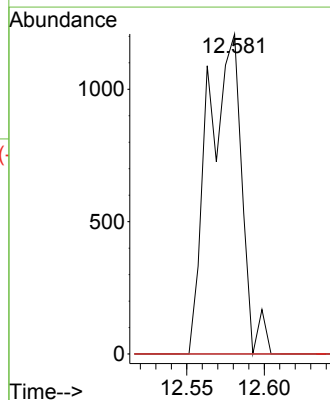
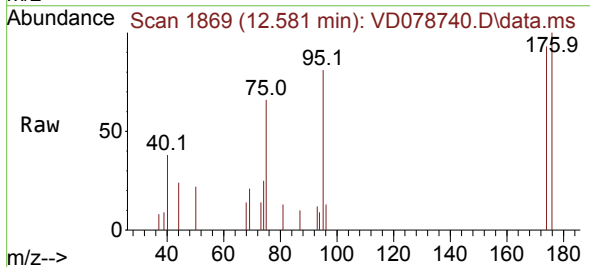
Instrument :  
MSVOA\_D  
ClientSampleId :  
72-11933

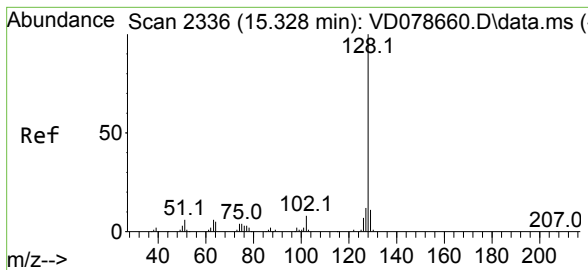
Tgt Ion: 75 Resp: 1816  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0



#81  
trans-1,4-Dichloro-2-butene  
Concen: 91.480 ug/l  
RT: 12.581 min Scan# 1869  
Delta R.T. 0.112 min  
Lab File: VD078740.D  
Acq: 22 Mar 2024 14:01

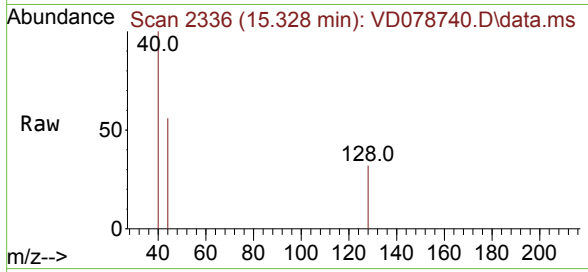
Tgt Ion: 75 Resp: 1816  
Ion Ratio Lower Upper  
75 100  
53 0.0 61.0 91.6#  
89 0.0 35.4 53.0#





#95  
 Naphthalene  
 Concen: 1.636 ug/l  
 RT: 15.328 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VD078740.D  
 Acq: 22 Mar 2024 14:01

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 72-11933



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 266   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 9.3   | 13.9# |
| 129      | 0.0   | 8.9   | 13.3# |

