

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD070621\  
 Data File : VD069588.D  
 Acq On : 06 Jul 2021 18:09  
 Operator : VA/SY  
 Sample : M2936-01  
 Misc : 5.04G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TR-05-070221

Quant Time: Jul 07 04:54:41 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D062121S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 22 04:33:24 2021  
 Response via : Initial Calibration

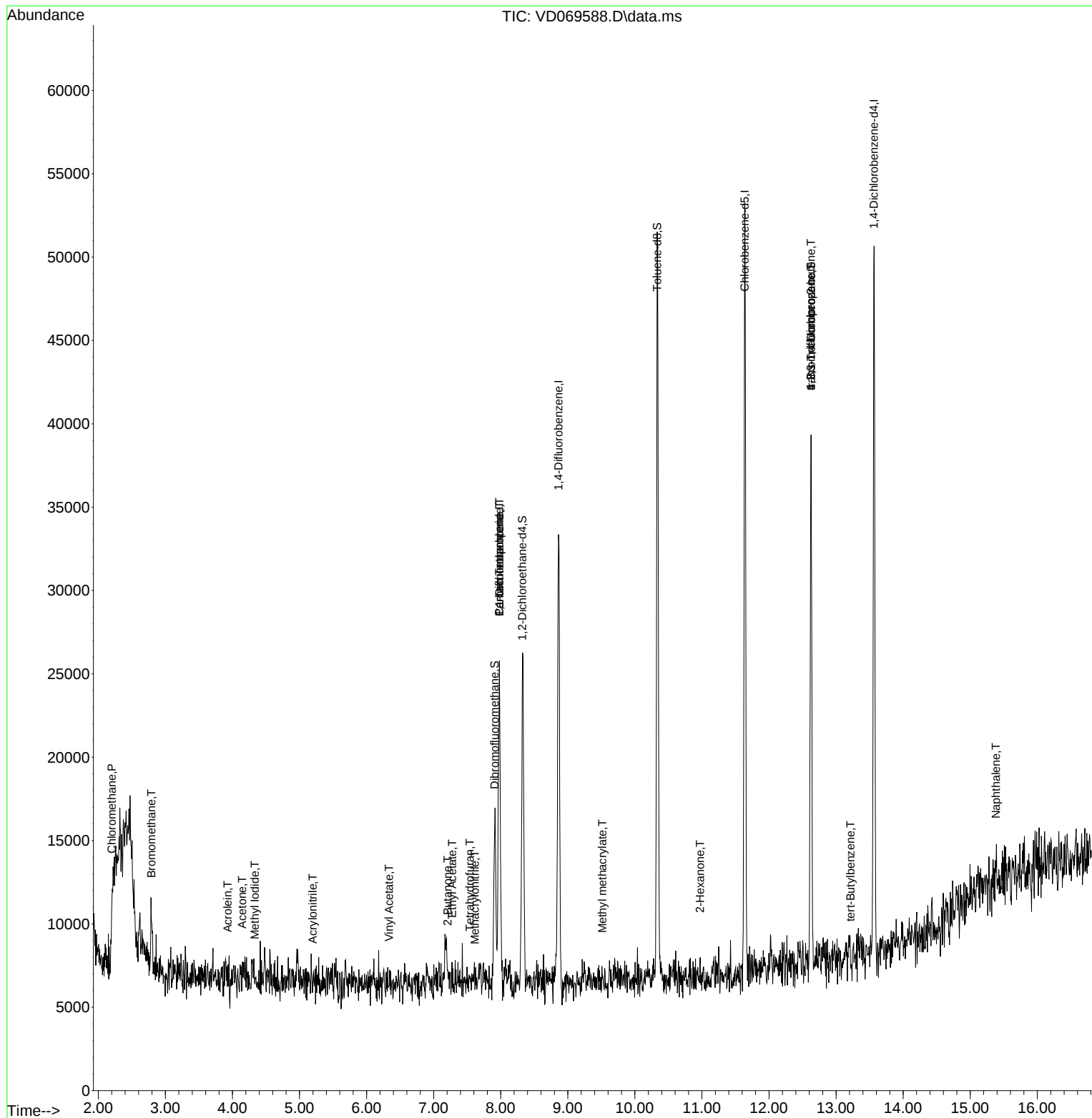
| Compound                      | R.T.           | QIon | Response             | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|----------------------|-----------|--------|----------|
| -----                         |                |      |                      |           |        |          |
| Internal Standards            |                |      |                      |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 12470                | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 23031                | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 26708                | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561         | 152  | 11275                | 50.000    | ug/l   | 0.00     |
|                               |                |      |                      |           |        |          |
| System Monitoring Compounds   |                |      |                      |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.320          | 65   | 14582                | 93.813    | ug/l   | -0.01    |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 187.620%# |           |        |          |
| 35) Dibromofluoromethane      | 7.909          | 113  | 7444                 | 47.814    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 95.620%   |           |        |          |
| 50) Toluene-d8                | 10.332         | 98   | 31354                | 53.692    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 107.380%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 11403                | 59.396    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 118.800%  |           |        |          |
|                               |                |      |                      |           |        |          |
| Target Compounds              |                |      |                      |           |        | Qvalue   |
| 3) Chloromethane              | 2.203          | 50   | 944                  | 5.396     | ug/l # | 49       |
| 5) Bromomethane               | 2.791          | 94   | 2321                 | 18.617    | ug/l   | 91       |
| 10) Methyl Iodide             | 4.332          | 142  | 1505                 | 14.558    | ug/l # | 68       |
| 13) Acrolein                  | 3.926          | 56   | 81                   | 9.362     | ug/l # | 15       |
| 15) Acrylonitrile             | 5.197          | 53   | 61                   | 2.372     | ug/l # | 17       |
| 16) Acetone                   | 4.144          | 43   | 1174                 | 44.874    | ug/l # | 41       |
| 18) Methyl Acetate            | 4.526          | 43   | 73                   | Below Cal | #      | 49       |
| 20) Methylene Chloride        | 4.962          | 84   | 623                  | Below Cal | #      | 62       |
| 23) Vinyl Acetate             | 6.332          | 43   | 70                   | 19.303    | ug/l # | 70       |
| 25) 2-Butanone                | 7.209          | 43   | 127                  | 3.820     | ug/l # | 44       |
| 29) Tetrahydrofuran           | 7.538          | 42   | 76                   | 4.170     | ug/l # | 31       |
| 36) 1,1-Dichloropropene       | 7.979          | 75   | 1473                 | 6.517     | ug/l # | 43       |
| 37) Ethyl Acetate             | 7.273          | 43   | 89                   | 1.061     | ug/l # | 67       |
| 38) Carbon Tetrachloride      | 7.979          | 117  | 1494                 | 6.678     | ug/l # | 13       |
| 41) Methacrylonitrile         | 7.614          | 41   | 72                   | 1.475     | ug/l # | 18       |
| 48) Methyl methacrylate       | 9.514          | 41   | 129                  | 1.782     | ug/l # | 8        |
| 59) 2-Hexanone                | 10.973         | 43   | 60                   | 1.110     | ug/l # | 22       |
| 76) 1,2,3-Trichloropropane    | 12.626         | 75   | 4916                 | 44.417    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626         | 75   | 4916                 | 110.903   | ug/l # | 12       |
| 83) tert-Butylbenzene         | 13.214         | 119  | 75                   | 2.115     | ug/l # | 27       |
| 95) Naphthalene               | 15.385         | 128  | 387                  | 4.382     | ug/l # | 69       |
| -----                         |                |      |                      |           |        |          |

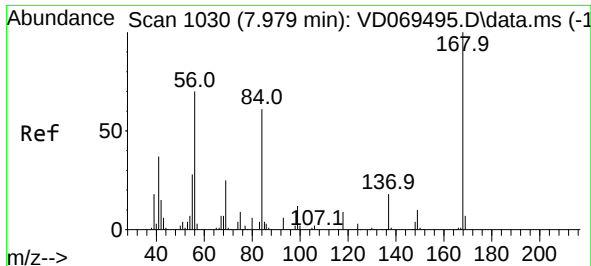
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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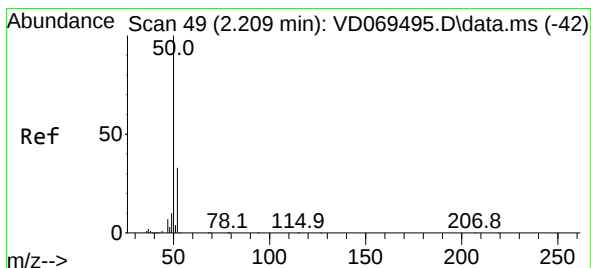
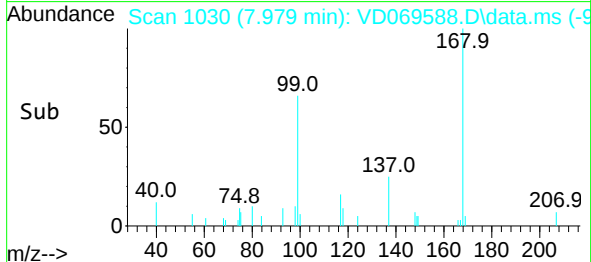
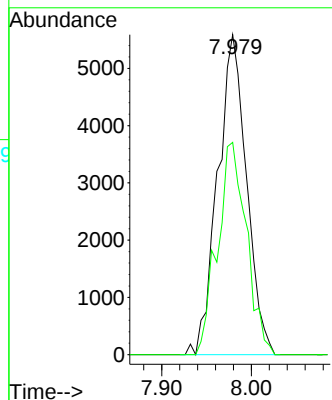
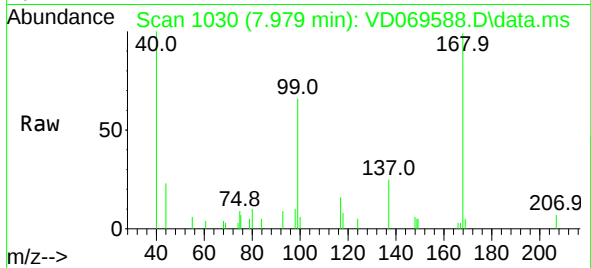




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. 0.000 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

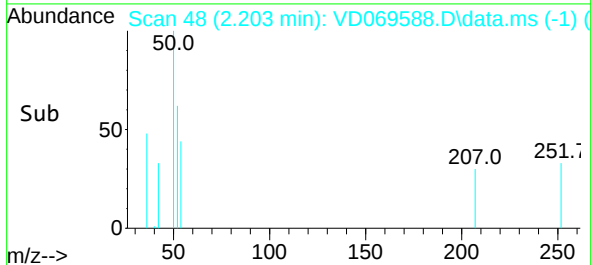
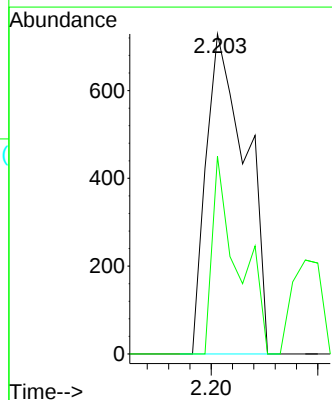
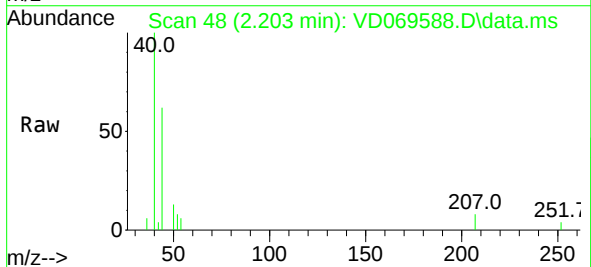
Instrument :  
MSVOA\_D  
ClientSampleId :  
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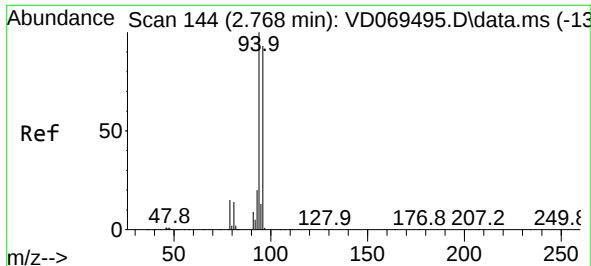
Tgt Ion:168 Resp: 12470  
Ion Ratio Lower Upper  
168 100  
99 66.4 49.3 73.9



#3  
Chloromethane  
Concen: 5.396 ug/l  
RT: 2.203 min Scan# 48  
Delta R.T. -0.006 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

Tgt Ion: 50 Resp: 944  
Ion Ratio Lower Upper  
50 100  
52 61.7 26.3 39.5#

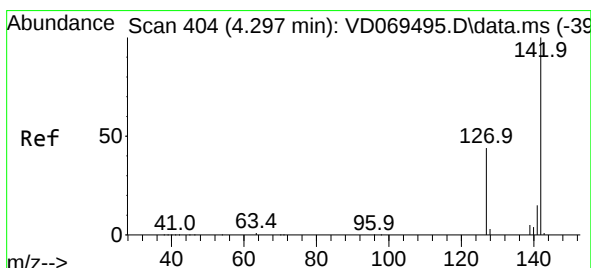
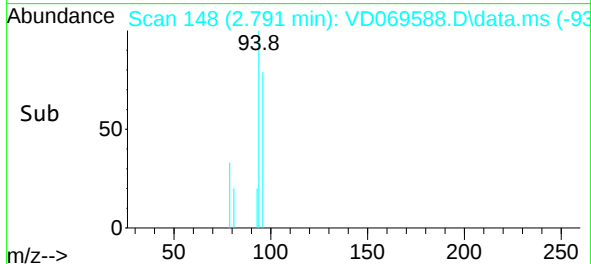
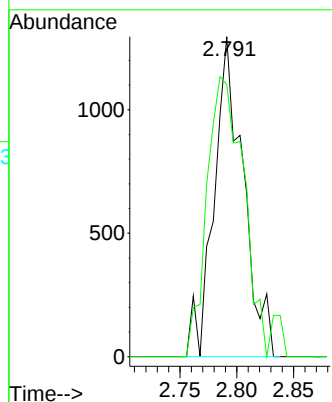
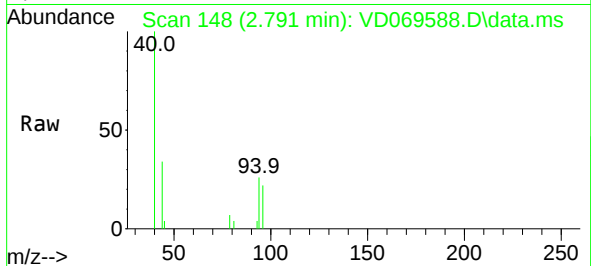




#5  
Bromomethane  
Concen: 18.617 ug/l  
RT: 2.791 min Scan# 148  
Delta R.T. 0.023 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

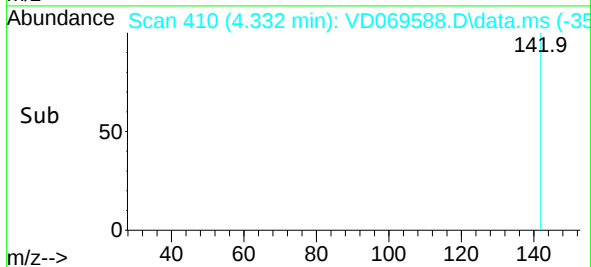
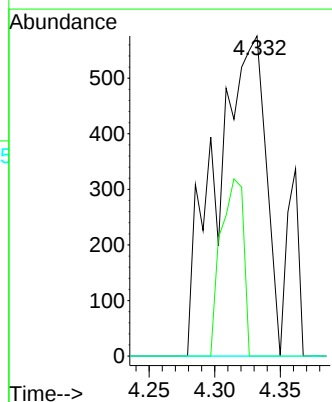
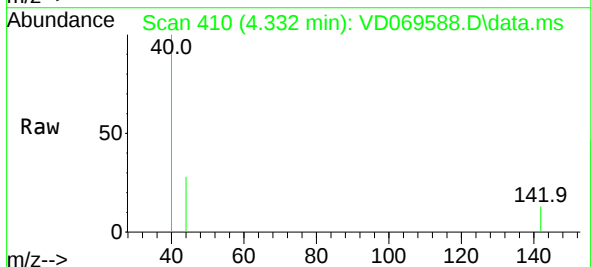
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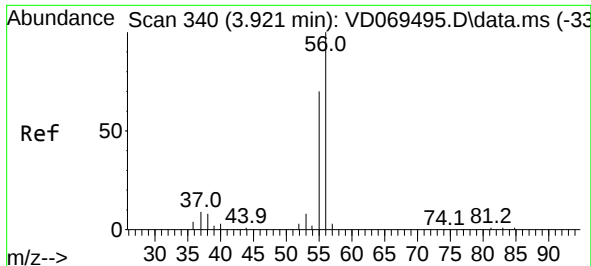
Tgt Ion: 94 Resp: 2321  
Ion Ratio Lower Upper  
94 100  
96 85.0 74.6 111.8



#10  
Methyl Iodide  
Concen: 14.558 ug/l  
RT: 4.332 min Scan# 410  
Delta R.T. 0.035 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

Tgt Ion: 142 Resp: 1505  
Ion Ratio Lower Upper  
142 100  
127 25.5 36.5 54.7#  
141 0.0 12.0 18.0#

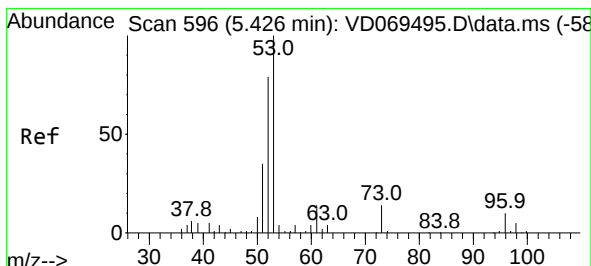
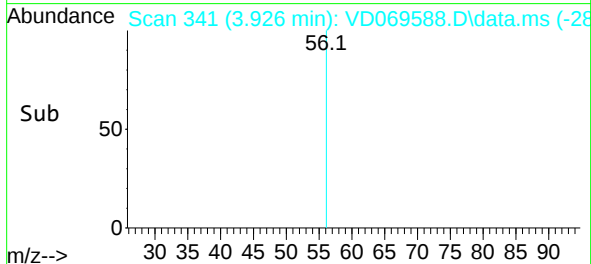
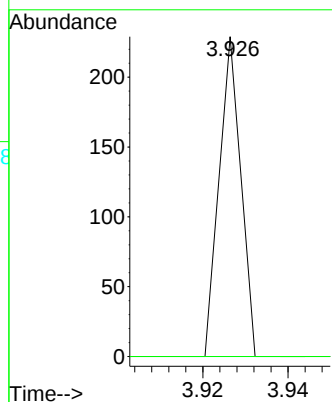
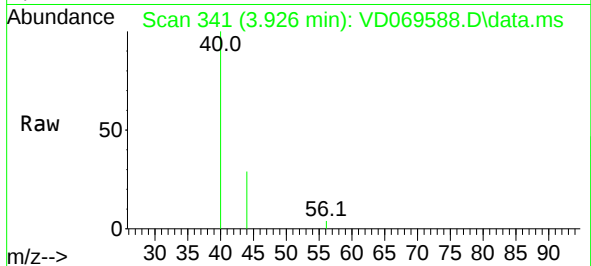




#13  
Acrolein  
Concen: 9.362 ug/l  
RT: 3.926 min Scan# 341  
Delta R.T. 0.006 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

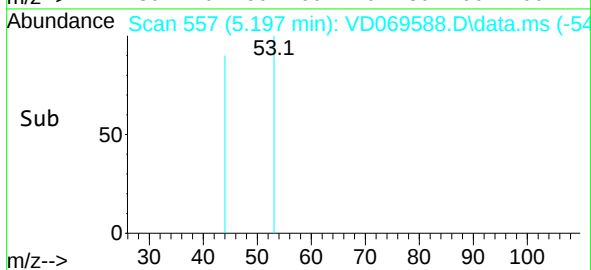
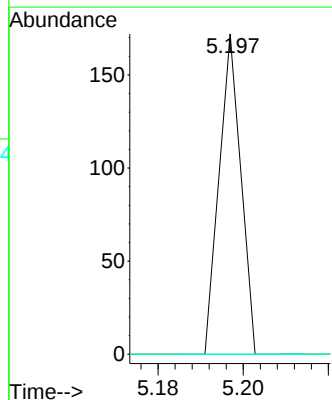
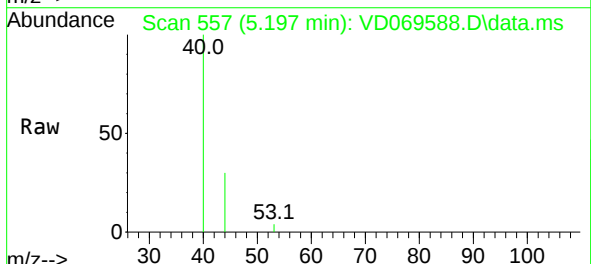
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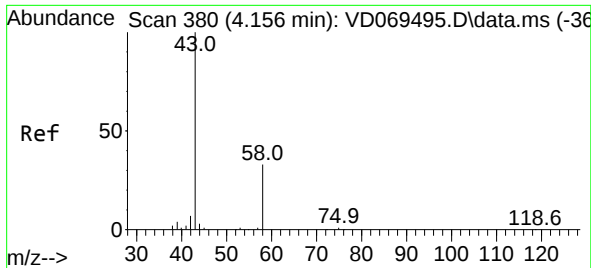
Tgt Ion: 56 Resp: 81  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.0 84.0#



#15  
Acrylonitrile  
Concen: 2.372 ug/l  
RT: 5.197 min Scan# 557  
Delta R.T. -0.229 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

Tgt Ion: 53 Resp: 61  
Ion Ratio Lower Upper  
53 100  
52 0.0 65.8 98.6#  
51 0.0 29.7 44.5#

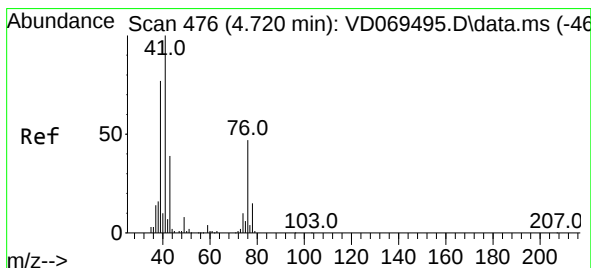
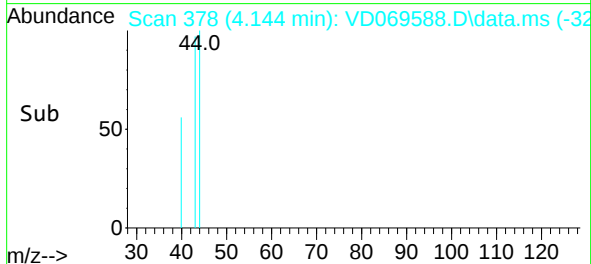
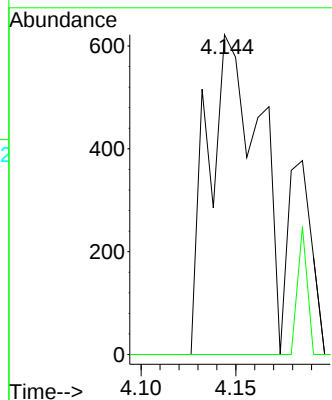
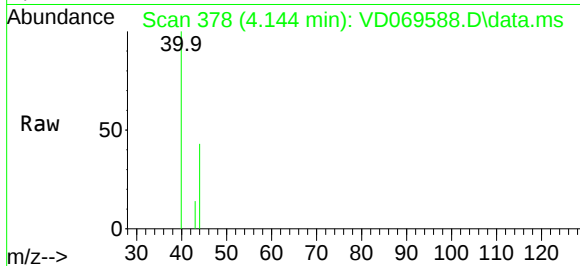




#16  
Acetone  
Concen: 44.874 ug/l  
RT: 4.144 min Scan# 378  
Delta R.T. -0.012 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

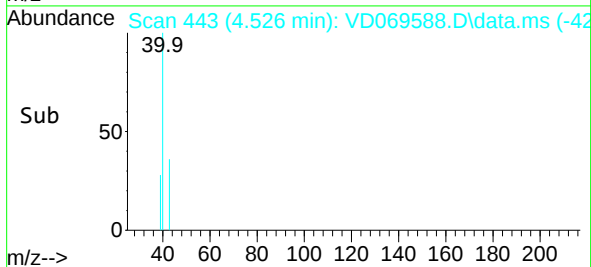
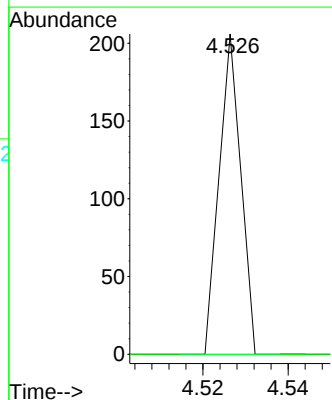
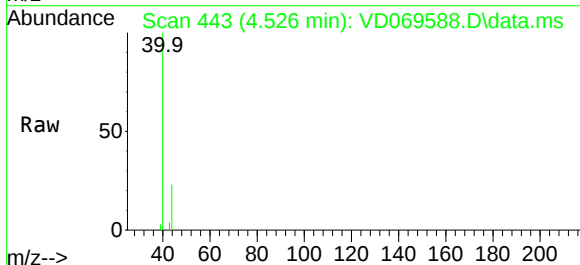
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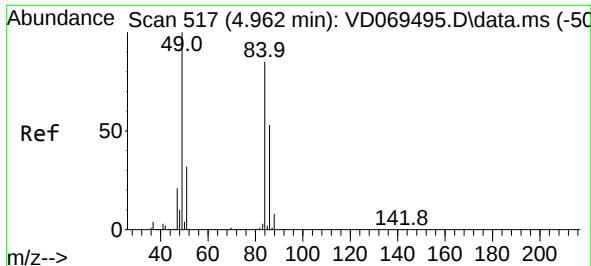
Tgt Ion: 43 Resp: 1174  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.8 40.2#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.526 min Scan# 443  
Delta R.T. -0.194 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

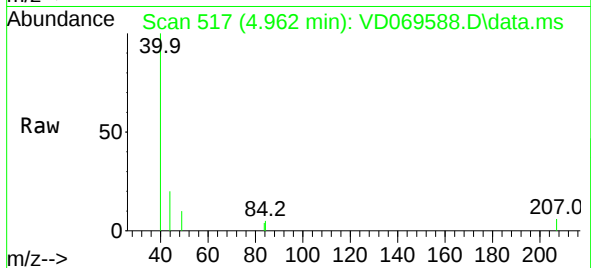
Tgt Ion: 43 Resp: 73  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.0 31.4#



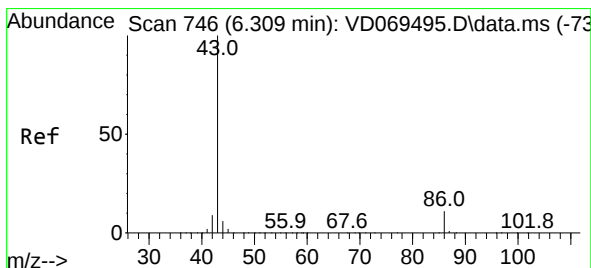
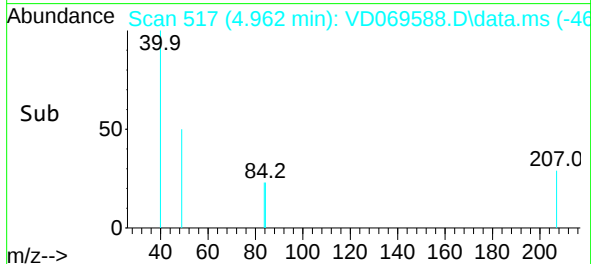
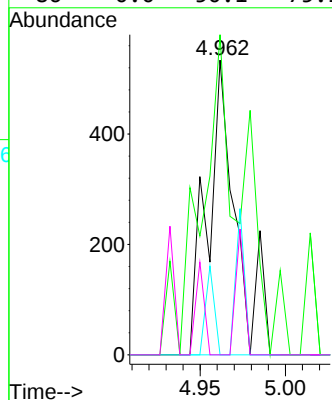


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.962 min Scan# 517  
Delta R.T. -0.000 min  
Lab File: VD069588.D  
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Instrument :  
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ClientSampleId :  
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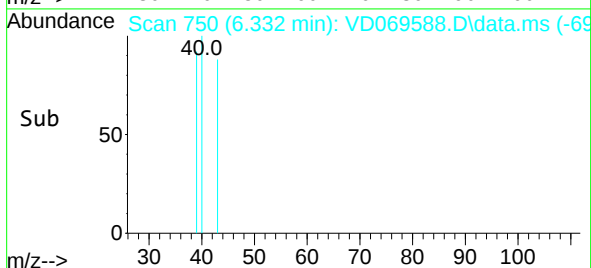
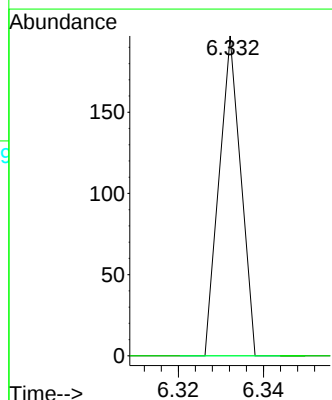
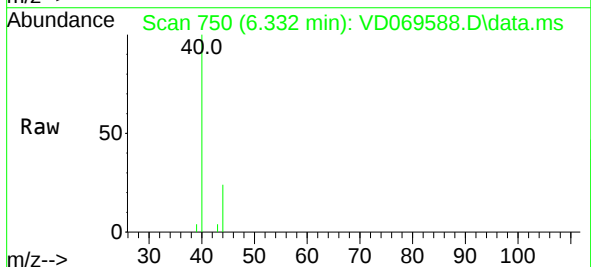


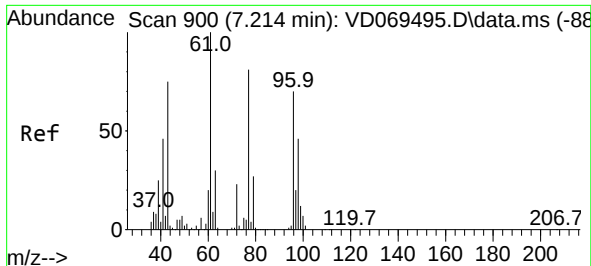
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|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 623   |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 108.6 | 94.0  | 141.0 |
| 51       | 0.0   | 29.7  | 44.5# |
| 86       | 0.0   | 50.1  | 75.1# |



#23  
Vinyl Acetate  
Concen: 19.303 ug/l  
RT: 6.332 min Scan# 750  
Delta R.T. 0.023 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 70    |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 9.1   | 13.7# |

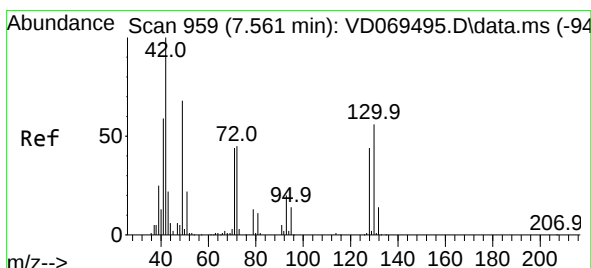
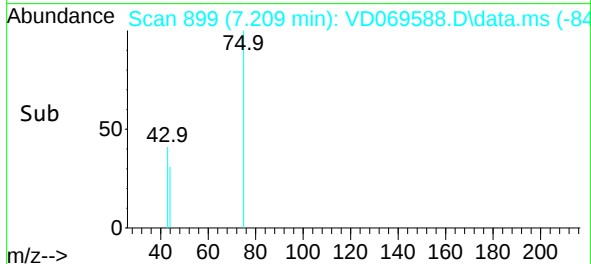
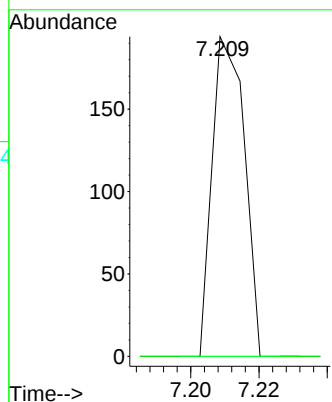
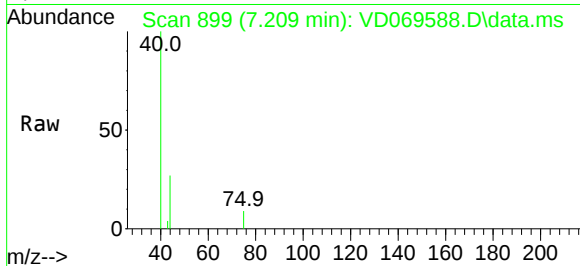




#25  
2-Butanone  
Concen: 3.820 ug/l  
RT: 7.209 min Scan# 899  
Delta R.T. -0.006 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

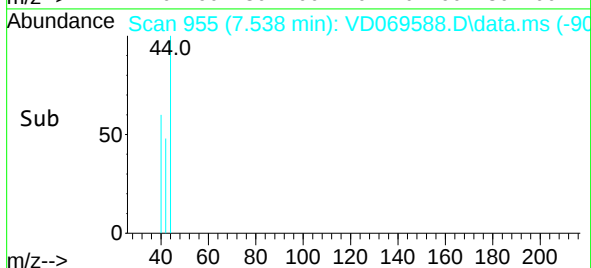
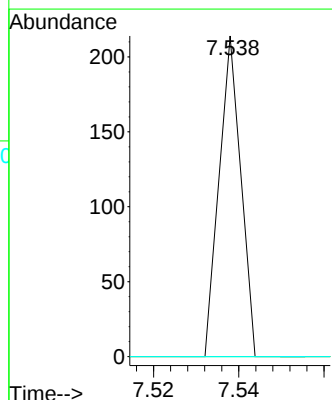
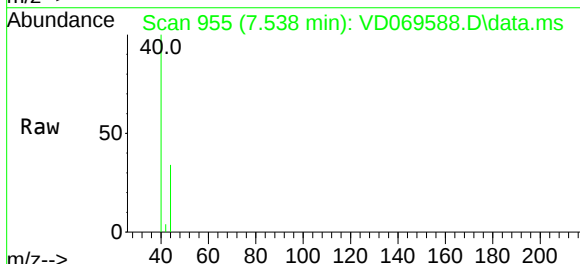
Instrument :  
MSVOA\_D  
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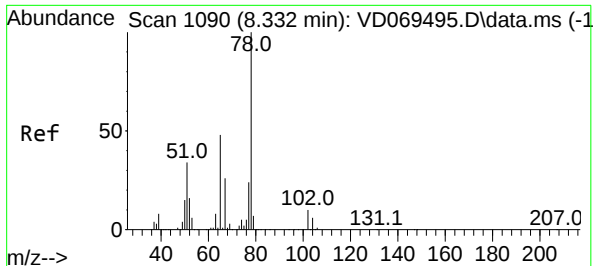
Tgt Ion: 43 Resp: 127  
Ion Ratio Lower Upper  
43 100  
72 0.0 24.3 36.5#



#29  
Tetrahydrofuran  
Concen: 4.170 ug/l  
RT: 7.538 min Scan# 955  
Delta R.T. -0.024 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

Tgt Ion: 42 Resp: 76  
Ion Ratio Lower Upper  
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72 0.0 37.9 56.9#  
71 0.0 35.1 52.7#

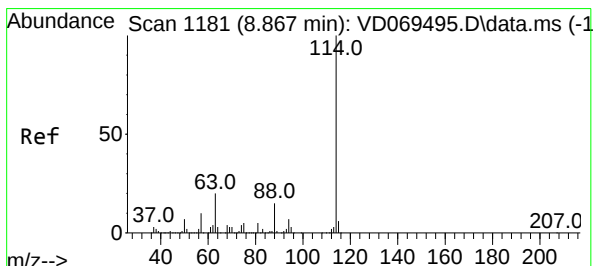
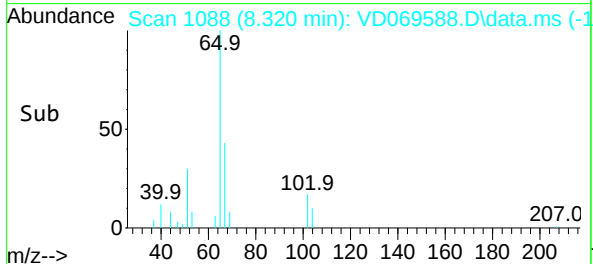
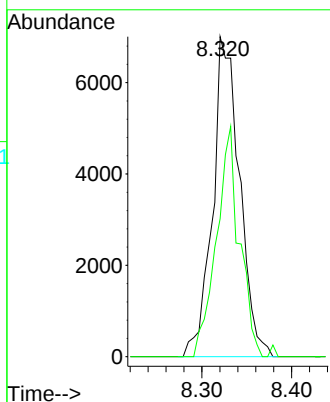
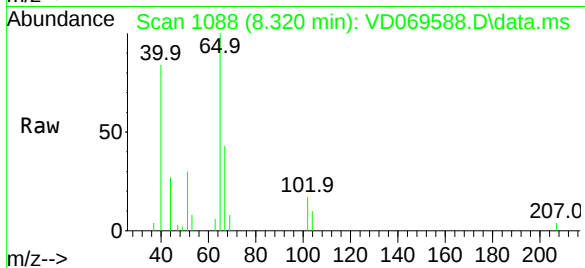




#33  
1,2-Dichloroethane-d4  
Concen: 93.813 ug/l  
RT: 8.320 min Scan# 1088  
Delta R.T. -0.012 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

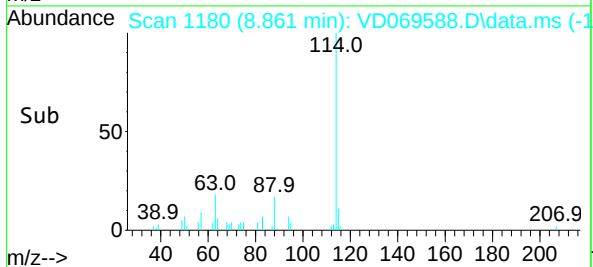
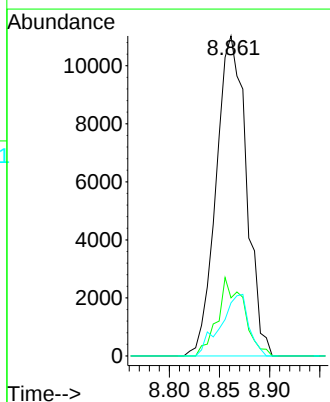
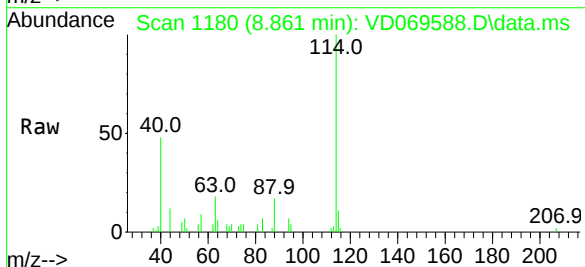
Instrument :  
MSVOA\_D  
ClientSampleId :  
TR-05-070221

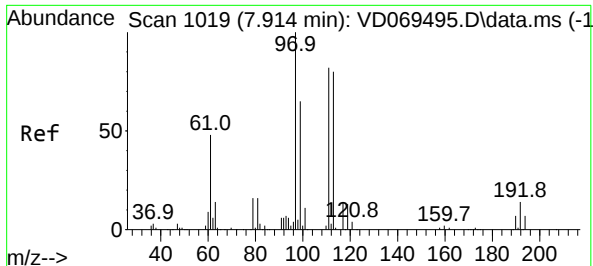
Tgt Ion: 65 Resp: 14582  
Ion Ratio Lower Upper  
65 100  
67 61.3 0.0 105.6



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. -0.006 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

Tgt Ion: 114 Resp: 23031  
Ion Ratio Lower Upper  
114 100  
63 18.1 0.0 39.6  
88 16.6 0.0 29.8





#35

Dibromofluoromethane

Concen: 47.814 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. -0.006 min

Lab File: VD069588.D

Acq: 06 Jul 2021 18:09

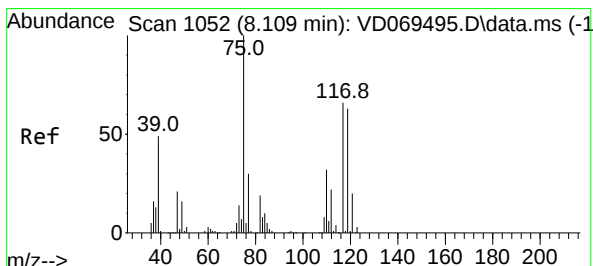
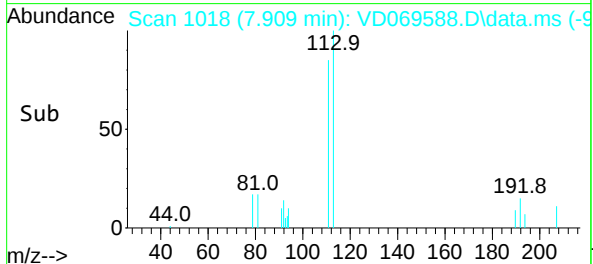
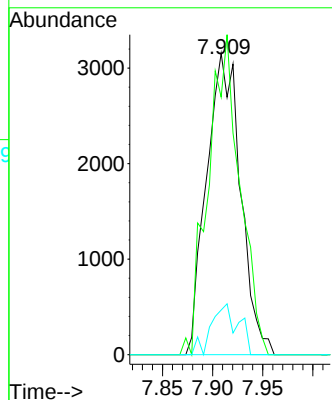
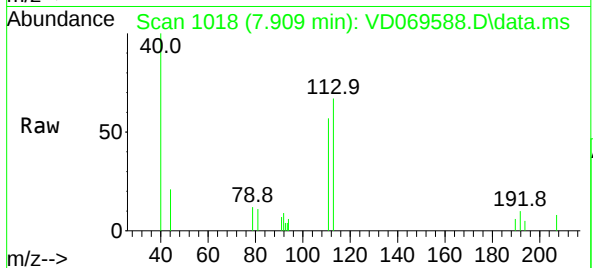
Instrument :

MSVOA\_D

ClientSampleId :

TR-05-070221

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 7444  |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 99.2  | 81.8  | 122.8 |
| 192      | 13.4  | 13.8  | 20.6# |



#36

1,1-Dichloropropene

Concen: 6.517 ug/l

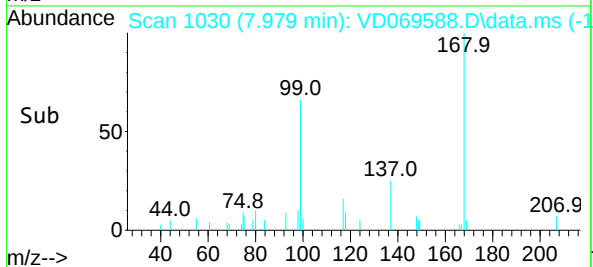
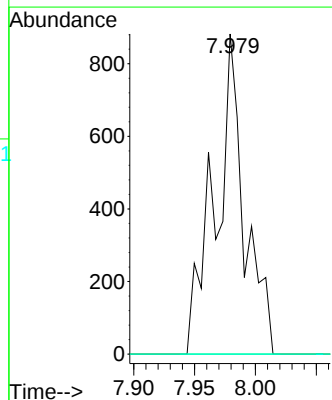
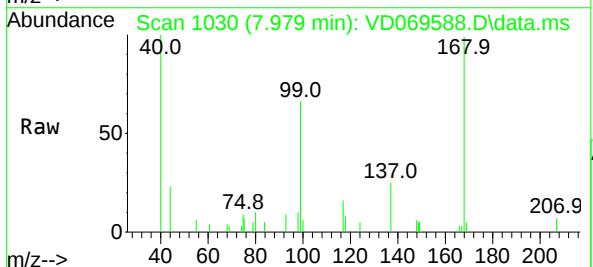
RT: 7.979 min Scan# 1030

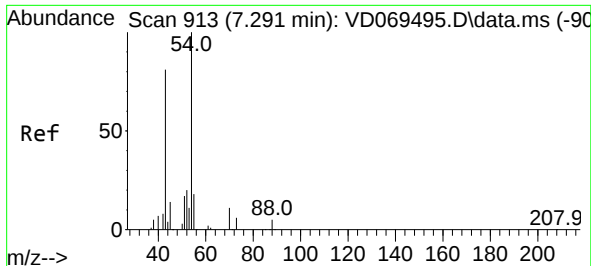
Delta R.T. -0.129 min

Lab File: VD069588.D

Acq: 06 Jul 2021 18:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 1473  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 0.0   | 16.8  | 50.4# |
| 77       | 0.0   | 24.3  | 36.5# |

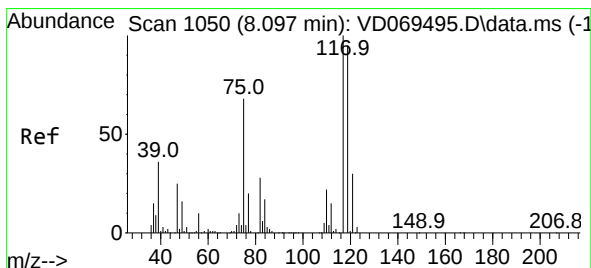
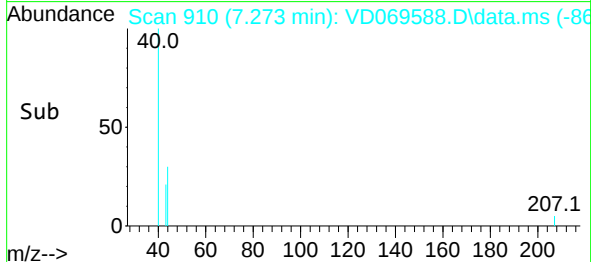
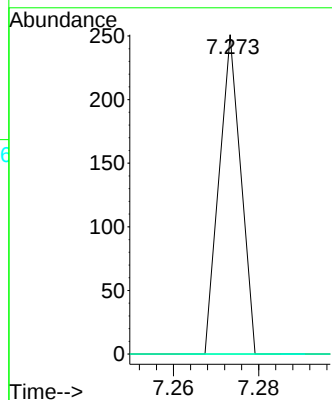
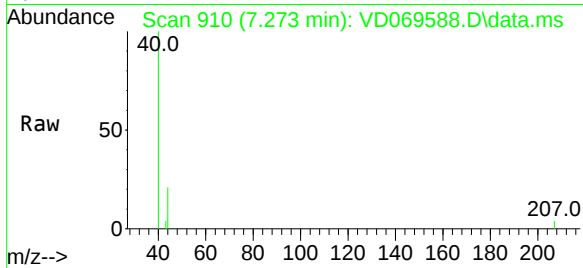




#37  
Ethyl Acetate  
Concen: 1.061 ug/l  
RT: 7.273 min Scan# 910  
Delta R.T. -0.018 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

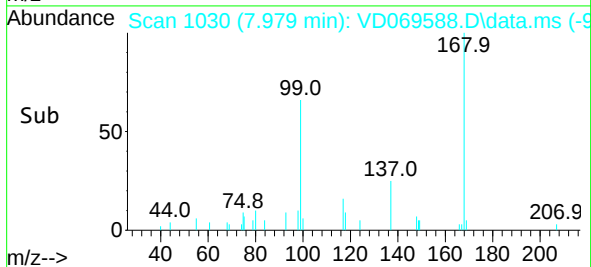
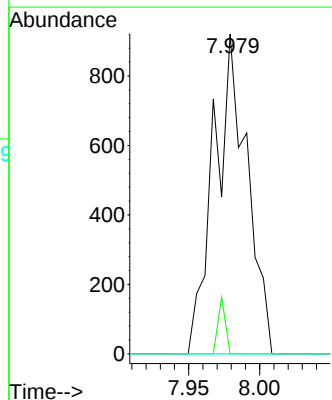
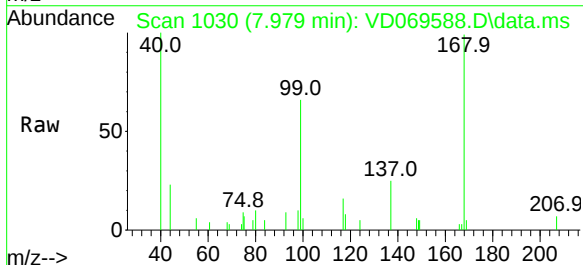
Instrument :  
MSVOA\_D  
ClientSampleId :  
TR-05-070221

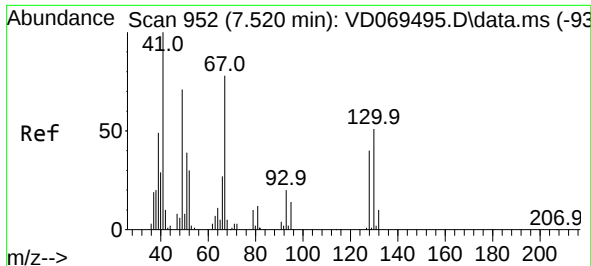
Tgt Ion: 43 Resp: 89  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.4 17.0#  
70 0.0 9.5 14.3#



#38  
Carbon Tetrachloride  
Concen: 6.678 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.118 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

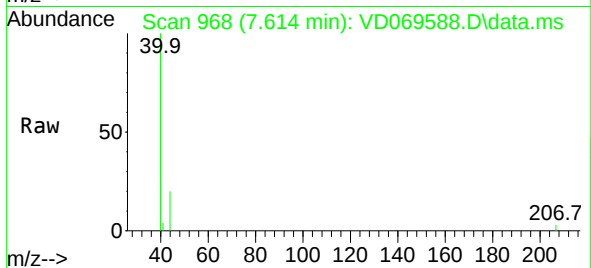
Tgt Ion: 117 Resp: 1494  
Ion Ratio Lower Upper  
117 100  
119 0.0 75.6 113.4#  
121 0.0 23.8 35.8#



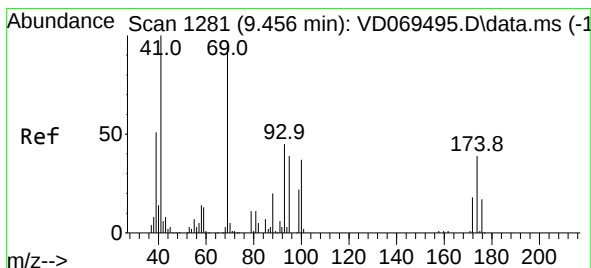
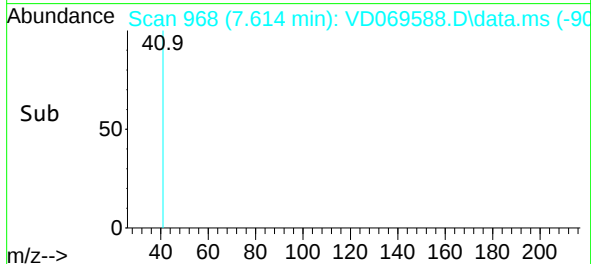
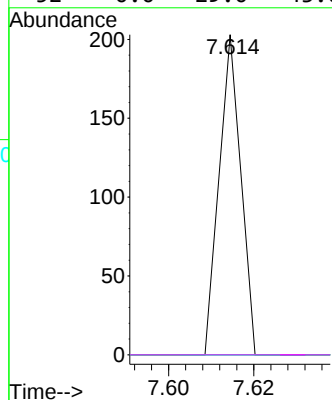


#41  
Methacrylonitrile  
Concen: 1.475 ug/l  
RT: 7.614 min Scan# 968  
Delta R.T. 0.094 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

Instrument :  
MSVOA\_D  
ClientSampleId :  
TR-05-070221

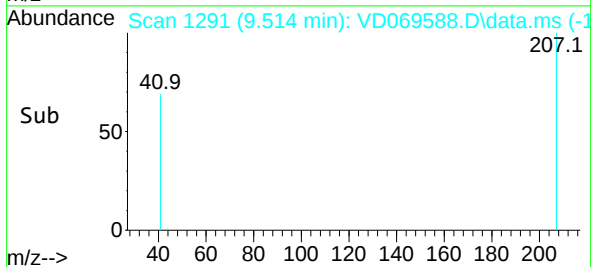
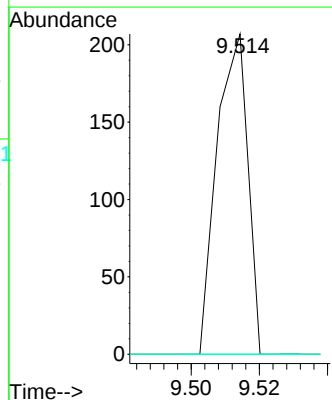
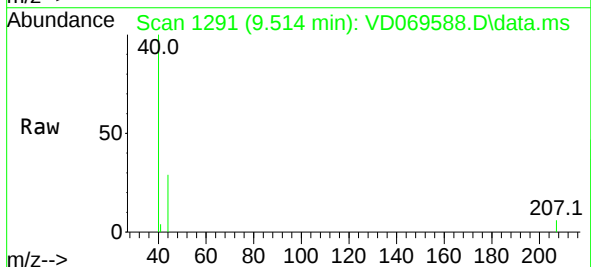


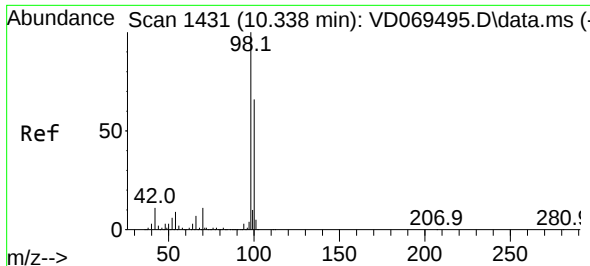
|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 72    |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 39 0.0      | 41.7 62.5#  |
| 67 0.0      | 71.8 107.6# |
| 52 0.0      | 29.0 43.6#  |



#48  
Methyl methacrylate  
Concen: 1.782 ug/l  
RT: 9.514 min Scan# 1291  
Delta R.T. 0.059 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 129   |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 69 0.0      | 80.9 121.3# |
| 39 0.0      | 45.8 68.6#  |

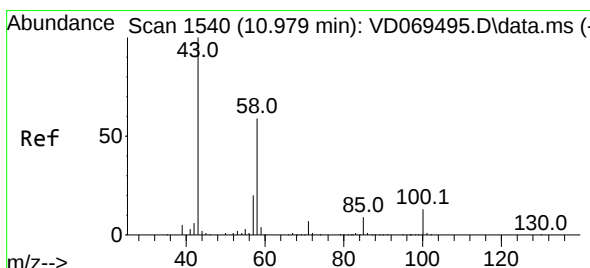
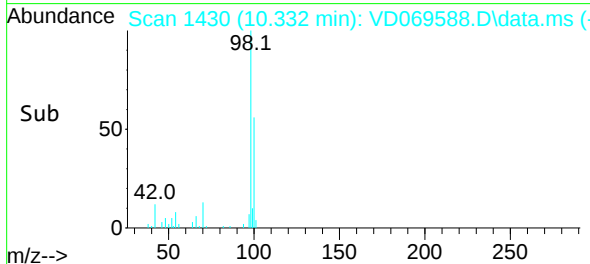
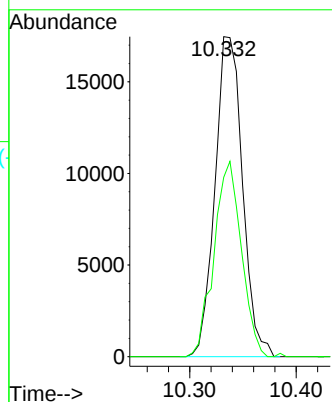
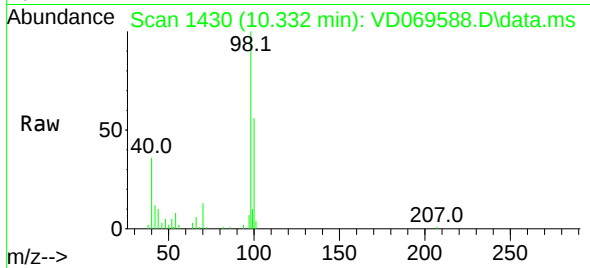




#50  
Toluene-d8  
Concen: 53.692 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.006 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

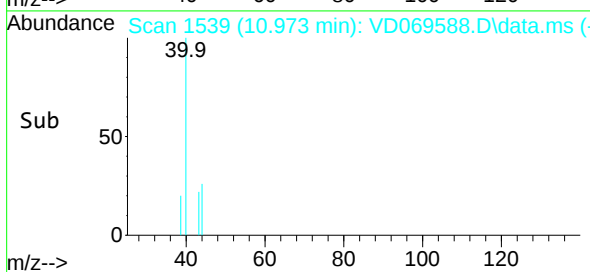
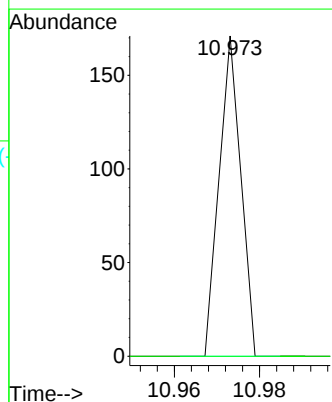
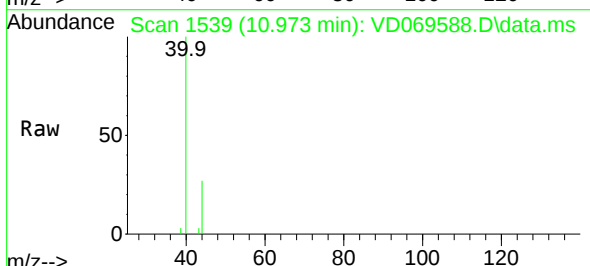
Instrument :  
MSVOA\_D  
ClientSampleId :  
TR-05-070221

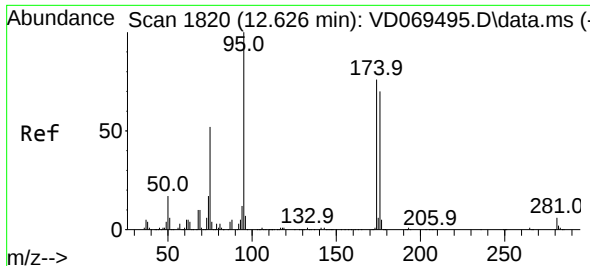
Tgt Ion: 98 Resp: 31354  
Ion Ratio Lower Upper  
98 100  
100 60.8 52.3 78.5



#59  
2-Hexanone  
Concen: 1.110 ug/l  
RT: 10.973 min Scan# 1539  
Delta R.T. -0.006 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

Tgt Ion: 43 Resp: 60  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.7 86.3#

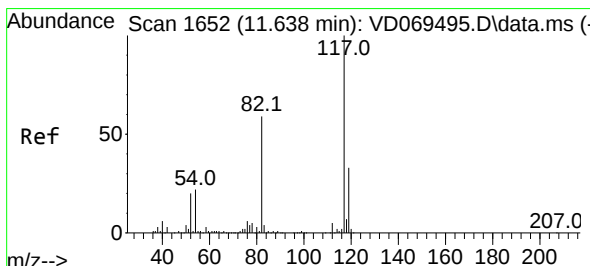
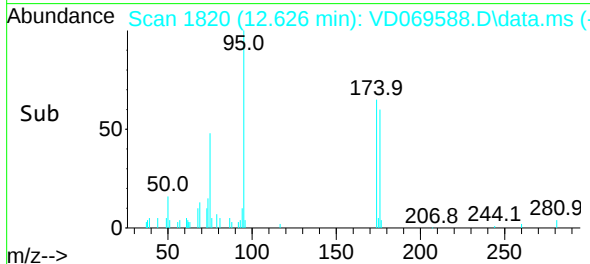
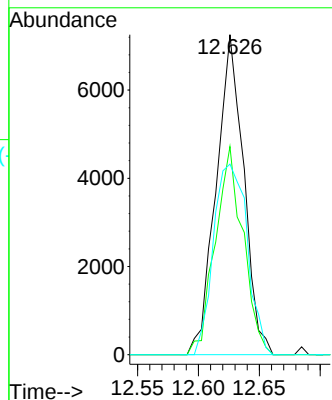
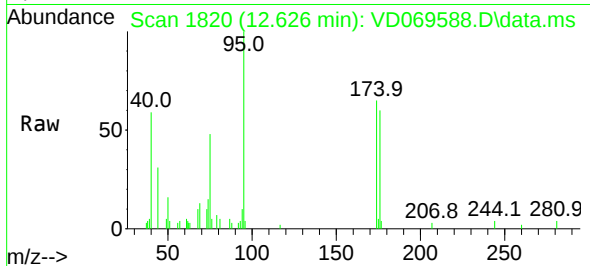




#62  
4-Bromofluorobenzene  
Concen: 59.396 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

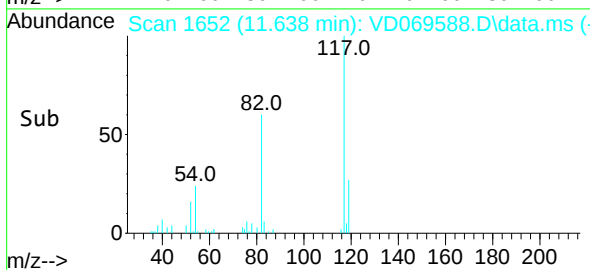
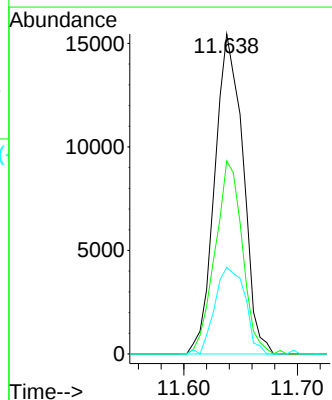
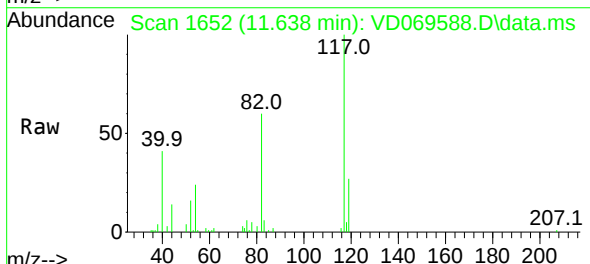
Instrument :  
MSVOA\_D  
ClientSampleId :  
TR-05-070221

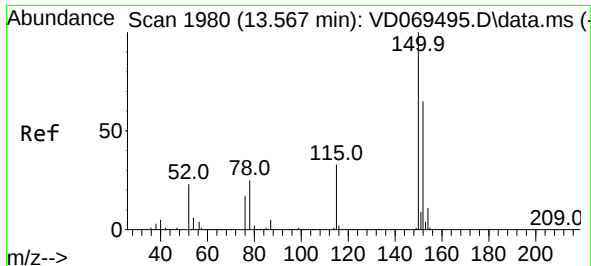
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 11403 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 65.9  | 0.0   | 148.0 |
| 176      | 72.8  | 0.0   | 139.8 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 26708 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 60.3  | 46.8  | 70.2  |
| 119      | 27.1  | 26.2  | 39.2  |

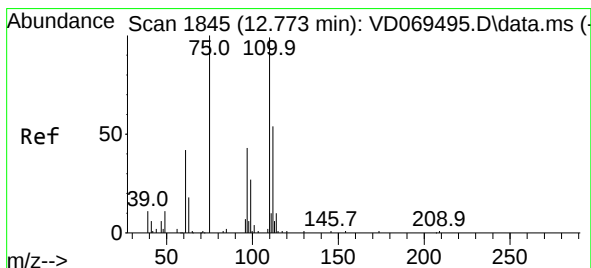
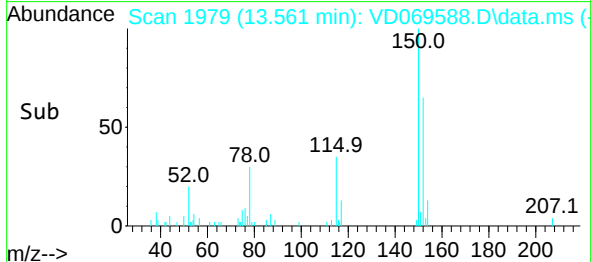
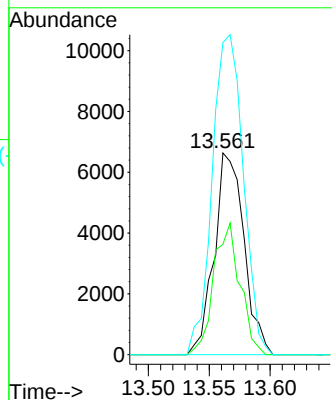
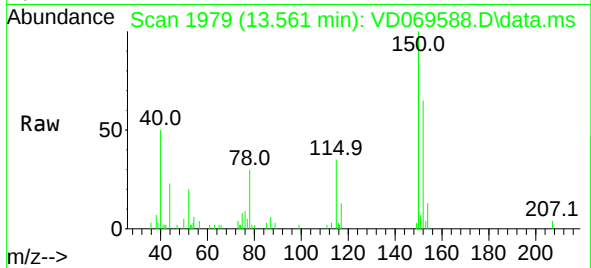




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.561 min Scan# 1979  
 Delta R.T. -0.006 min  
 Lab File: VD069588.D  
 Acq: 06 Jul 2021 18:09

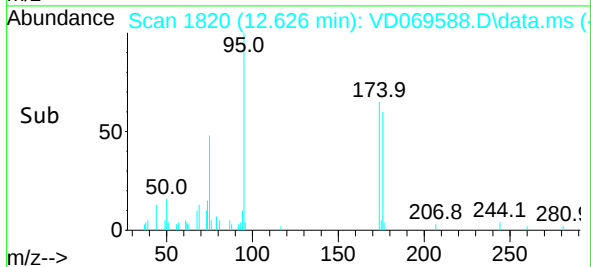
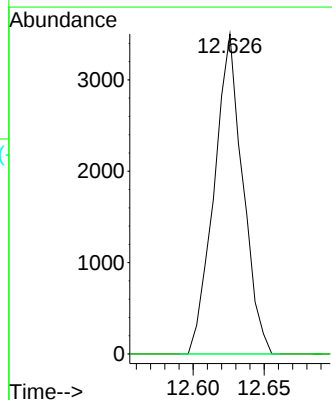
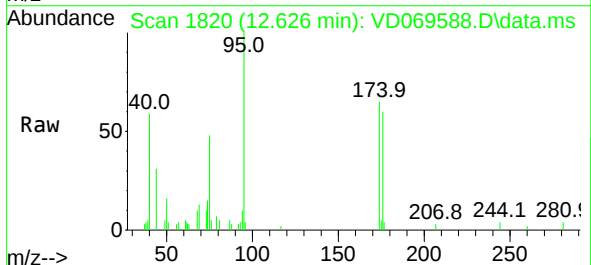
Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 TR-05-070221

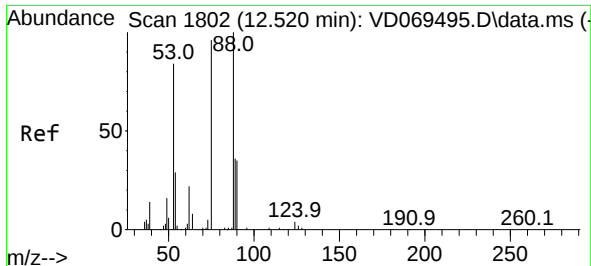
Tgt Ion:152 Resp: 11275  
 Ion Ratio Lower Upper  
 152 100  
 115 57.8 31.7 95.1  
 150 165.7 0.0 350.8



#76  
 1,2,3-Trichloropropane  
 Concen: 44.417 ug/l  
 RT: 12.626 min Scan# 1820  
 Delta R.T. -0.147 min  
 Lab File: VD069588.D  
 Acq: 06 Jul 2021 18:09

Tgt Ion: 75 Resp: 4916  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 162.6 487.8#

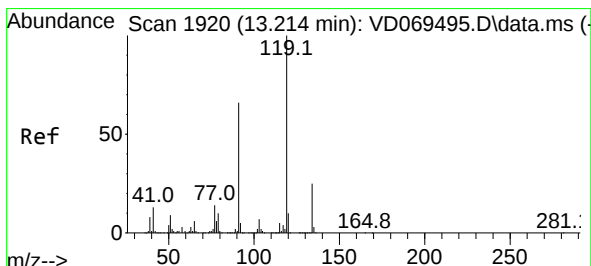
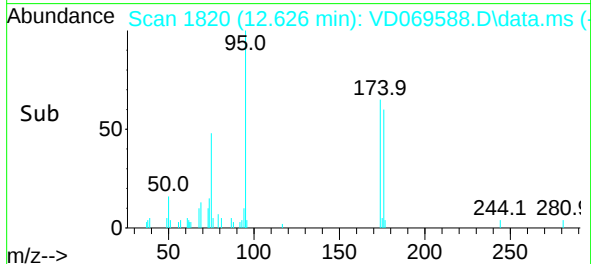
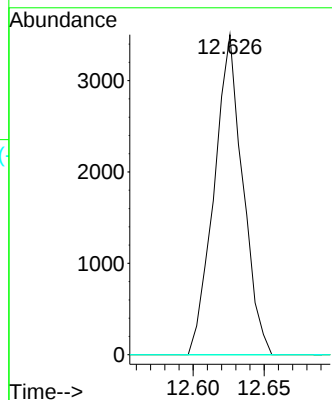
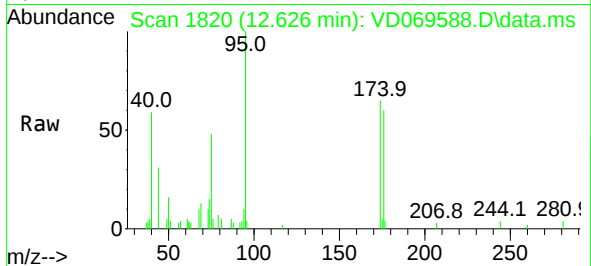




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 110.903 ug/l  
 RT: 12.626 min Scan# 1820  
 Delta R.T. 0.106 min  
 Lab File: VD069588.D  
 Acq: 06 Jul 2021 18:09

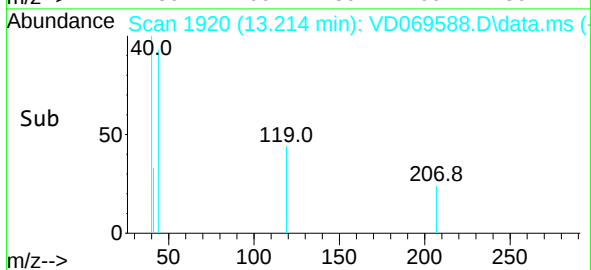
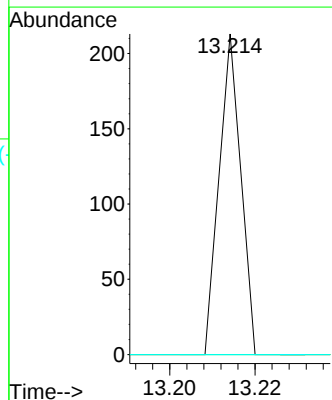
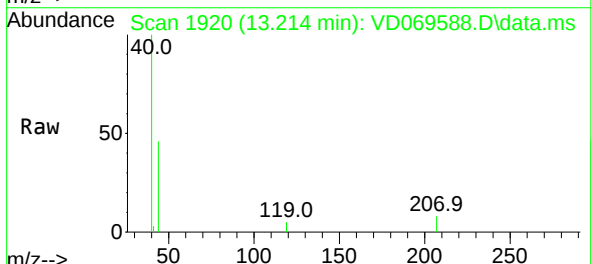
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TR-05-070221

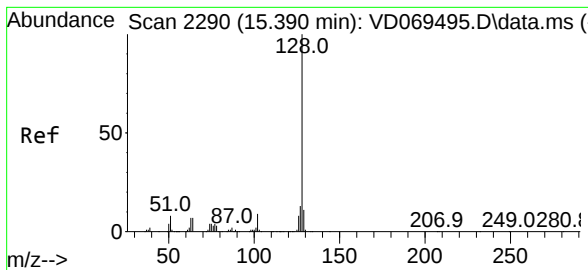
Tgt Ion: 75 Resp: 4916  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 74.6 112.0#  
 89 0.0 35.3 52.9#



#83  
 tert-Butylbenzene  
 Concen: 2.115 ug/l  
 RT: 13.214 min Scan# 1920  
 Delta R.T. 0.000 min  
 Lab File: VD069588.D  
 Acq: 06 Jul 2021 18:09

Tgt Ion: 119 Resp: 75  
 Ion Ratio Lower Upper  
 119 100  
 91 0.0 32.5 97.4#  
 134 0.0 12.9 38.7#





#95  
Naphthalene  
Concen: 4.382 ug/l  
RT: 15.385 min Scan# 2289  
Delta R.T. -0.005 min  
Lab File: VD069588.D  
Acq: 06 Jul 2021 18:09

Instrument :  
MSVOA\_D  
ClientSampleId :  
TR-05-070221

Tgt Ion:128 Resp: 387  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 16.0#  
129 0.0 8.7 13.1#

