

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX100421\  
 Data File : VX024552.D  
 Acq On : 05 Oct 2021 04:52  
 Operator : JC/MD  
 Sample : M4047-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 149-ENV-1-GRAB

Quant Time: Oct 05 08:35:26 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X092321W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 23 18:24:34 2021  
 Response via : Initial Calibration

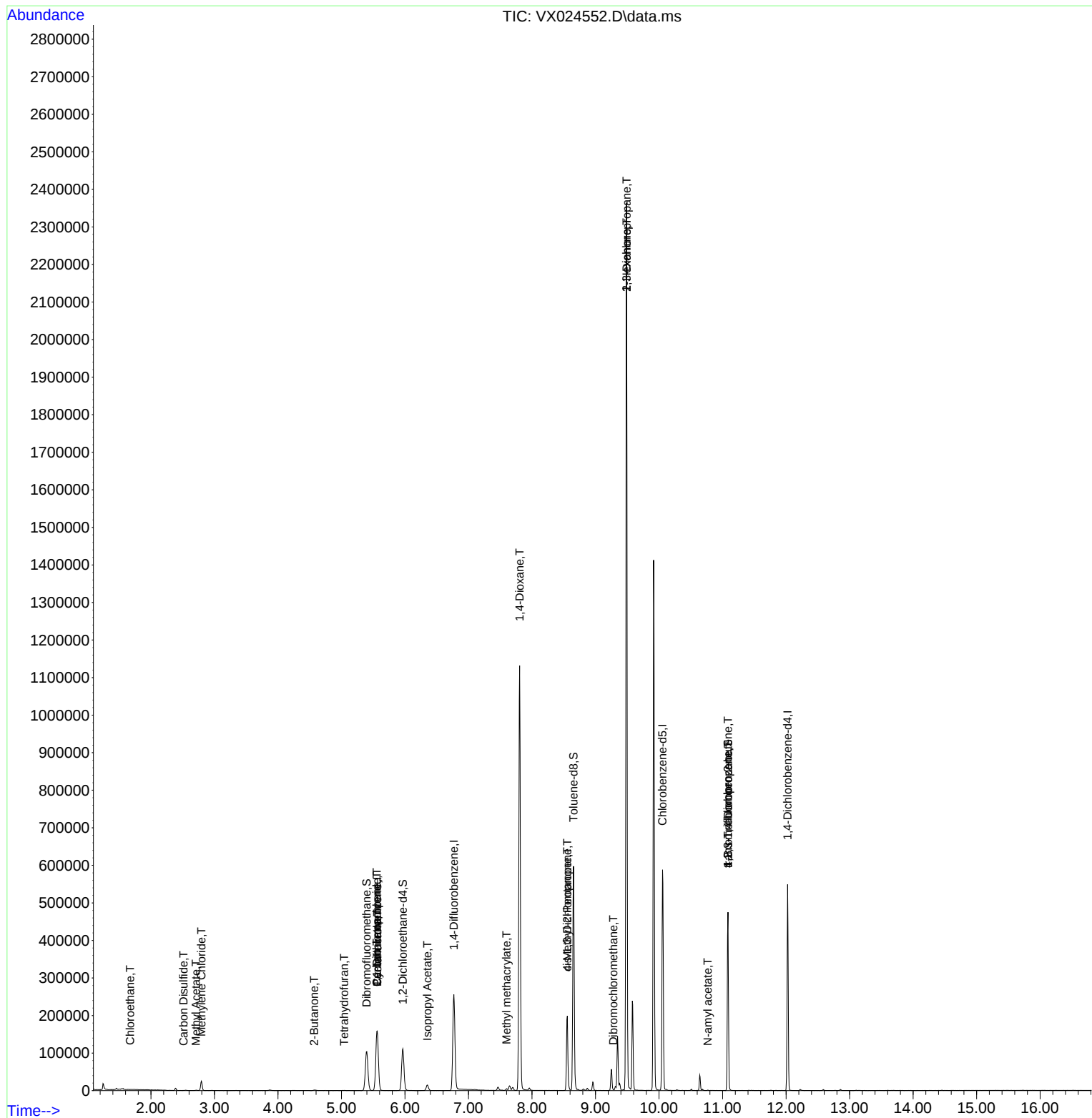
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 5.562          | 168  | 152263              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 256563              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 275015              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 108955              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964          | 65   | 111427              | 51.924    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 103.840% |           |        |          |
| 35) Dibromofluoromethane      | 5.397          | 113  | 91475               | 53.670    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 107.340% |           |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 348138              | 55.497    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 111.000% |           |        |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 122846              | 49.806    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 99.620%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           | Qvalue |          |
| 6) Chloroethane               | 1.672          | 64   | 125                 | 0.382     | ug/l # | 43       |
| 11) Tert butyl alcohol        | 2.965          | 59   | 589                 | Below Cal | #      | 73       |
| 16) Acetone                   | 2.386          | 43   | 6346                | Below Cal |        | 92       |
| 17) Carbon Disulfide          | 2.514          | 76   | 143                 | 0.267     | ug/l # | 75       |
| 18) Methyl Acetate            | 2.709          | 43   | 1559                | 0.485     | ug/l # | 86       |
| 20) Methylene Chloride        | 2.794          | 84   | 10736               | 5.672     | ug/l   | 92       |
| 25) 2-Butanone                | 4.568          | 43   | 1182                | 0.800     | ug/l   | 94       |
| 29) Tetrahydrofuran           | 5.044          | 42   | 457                 | 0.485     | ug/l # | 46       |
| 31) Cyclohexane               | 5.562          | 56   | 2993                | 1.165     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 12049               | 4.899     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 15916               | 5.945     | ug/l # | 17       |
| 43) Isopropyl Acetate         | 6.355          | 43   | 20255               | 4.339     | ug/l   | 93       |
| 48) Methyl methacrylate       | 7.598          | 41   | 6547                | 2.832     | ug/l # | 10       |
| 49) 1,4-Dioxane               | 7.806          | 88   | 156                 | 2.946     | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.555          | 43   | 68975               | 22.380    | ug/l # | 44       |
| 54) cis-1,3-Dichloropropene   | 8.555          | 75   | 31364               | 10.914    | ug/l # | 62       |
| 57) 1,3-Dichloropropane       | 9.488          | 76   | 20067               | 6.331     | ug/l # | 42       |
| 59) 2-Hexanone                | 9.488          | 43   | 266686              | 109.877   | ug/l # | 45       |
| 60) Dibromochloromethane      | 9.281          | 129  | 246                 | 1.300     | ug/l # | 11       |
| 74) N-amyl acetate            | 10.768         | 43   | 806                 | 0.227     | ug/l # | 42       |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 63350               | 25.603    | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 63350               | 69.772    | ug/l # | 12       |
| -----                         |                |      |                     |           |        |          |

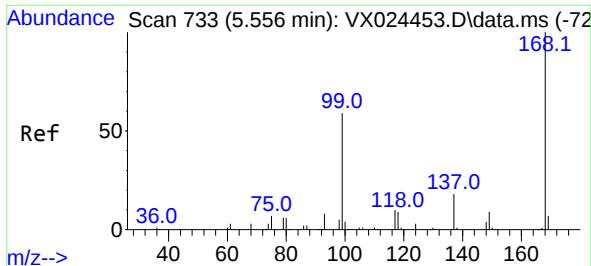
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
149-ENV-1-GRAB

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X092321W.M  
Quant Title : SW846 8260  
QLast Update : Thu Sep 23 18:24:34 2021  
Response via : Initial Calibration

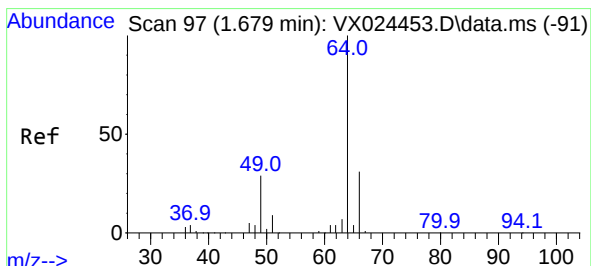
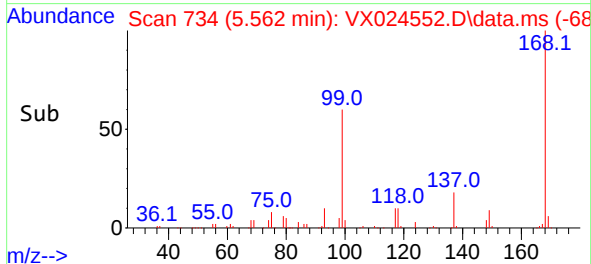
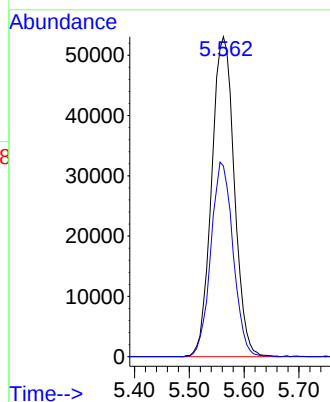
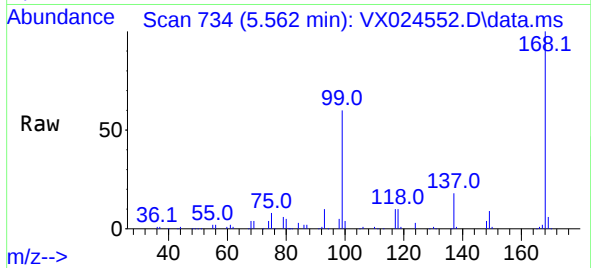




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.006 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

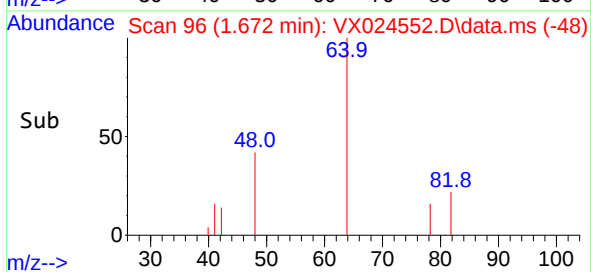
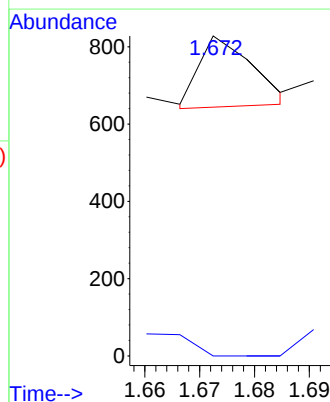
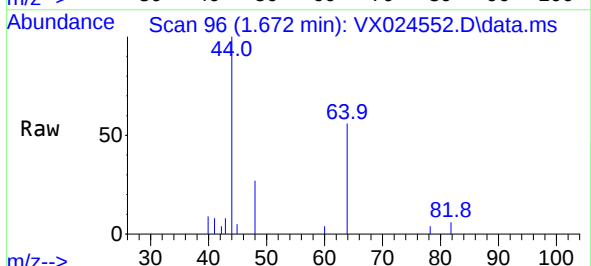
Instrument :  
MSVOA\_X  
ClientSampleId :  
149-ENV-1-GRAB

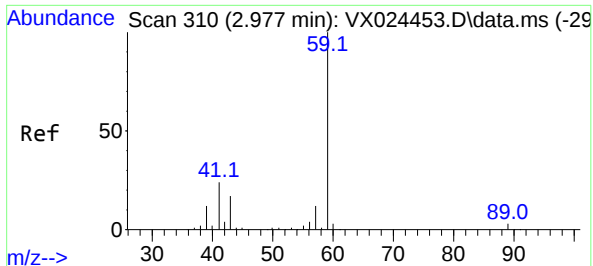
Tgt Ion:168 Resp: 152263  
Ion Ratio Lower Upper  
168 100  
99 59.6 45.8 68.6



#6  
Chloroethane  
Concen: 0.382 ug/l  
RT: 1.672 min Scan# 96  
Delta R.T. -0.007 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

Tgt Ion: 64 Resp: 125  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.0#



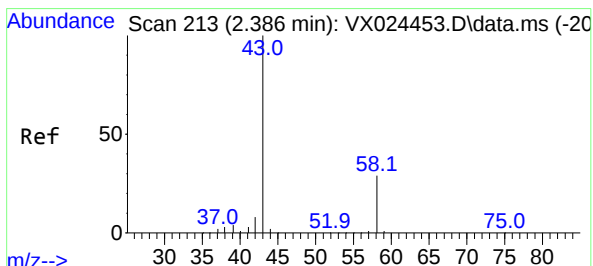
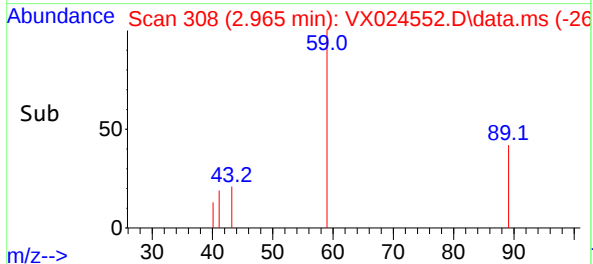
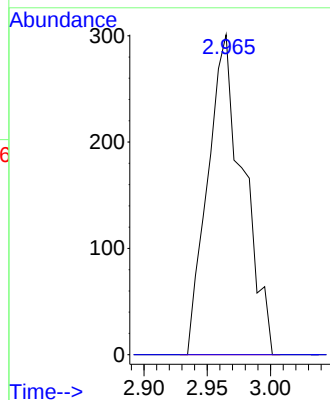
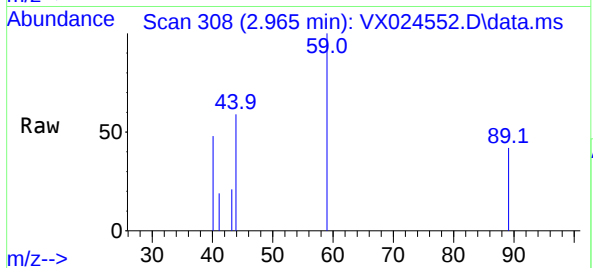


#11

Tert butyl alcohol  
Concen: Below Cal  
RT: 2.965 min Scan# 308  
Delta R.T. -0.012 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
149-ENV-1-GRAB

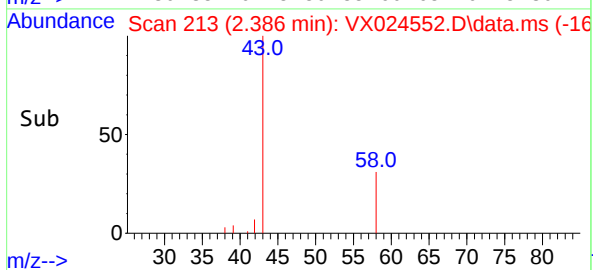
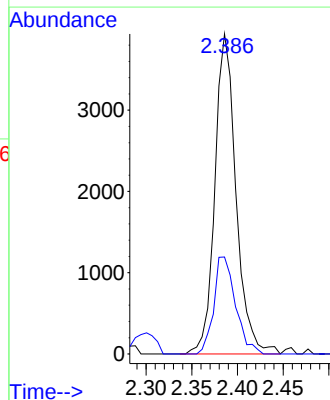
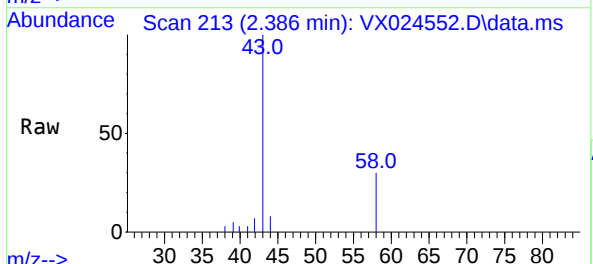
Tgt Ion: 59 Resp: 589  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

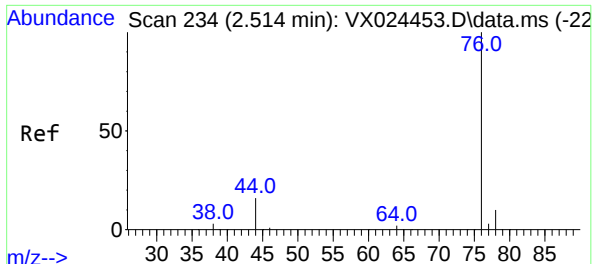


#16

Acetone  
Concen: Below Cal  
RT: 2.386 min Scan# 213  
Delta R.T. -0.000 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

Tgt Ion: 43 Resp: 6346  
Ion Ratio Lower Upper  
43 100  
58 30.3 27.8 41.8

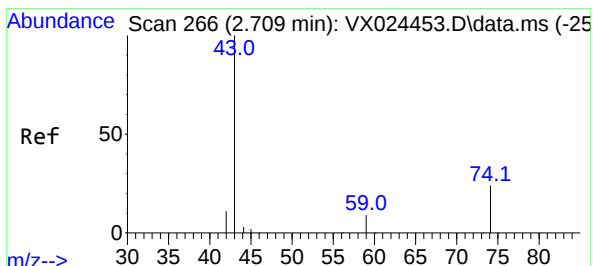
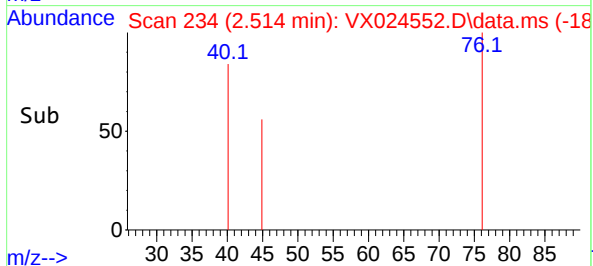
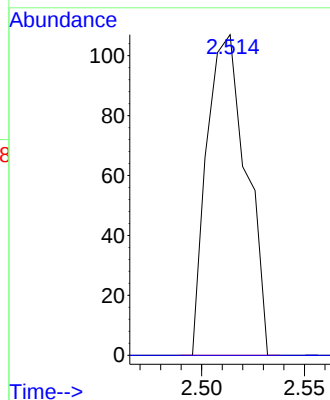
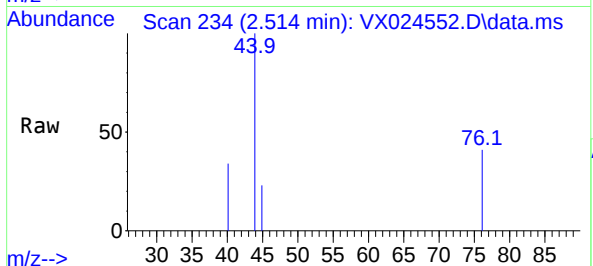




#17  
Carbon Disulfide  
Concen: 0.267 ug/l  
RT: 2.514 min Scan# 234  
Delta R.T. -0.000 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

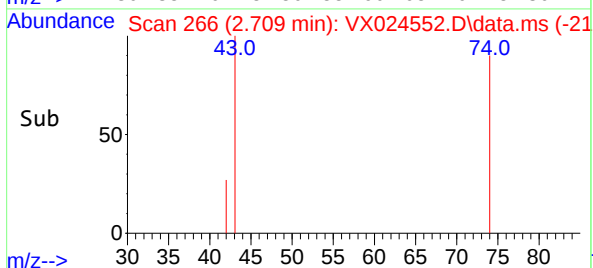
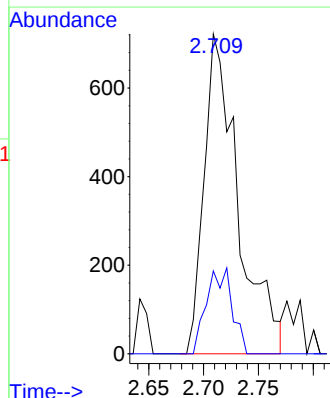
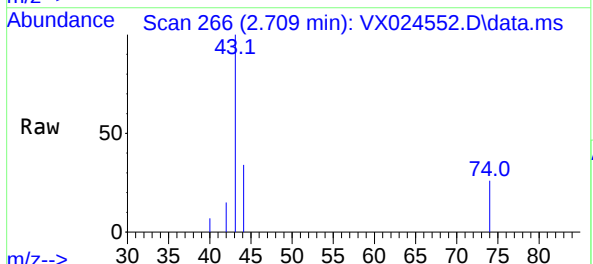
Instrument :  
MSVOA\_X  
ClientSampleId :  
149-ENV-1-GRAB

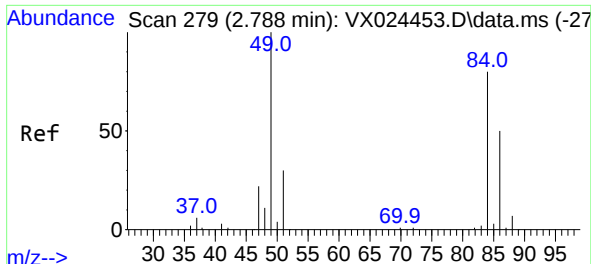
Tgt Ion: 76 Resp: 143  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#



#18  
Methyl Acetate  
Concen: 0.485 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. -0.000 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

Tgt Ion: 43 Resp: 1559  
Ion Ratio Lower Upper  
43 100  
74 20.1 21.9 32.9#



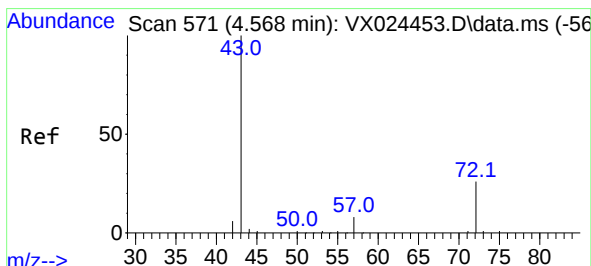
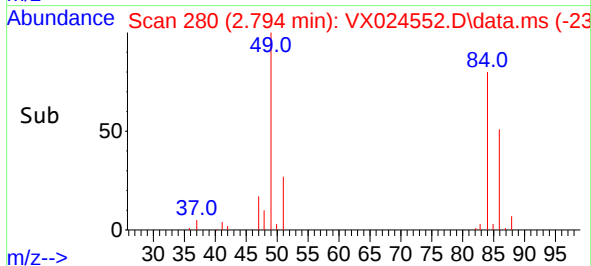
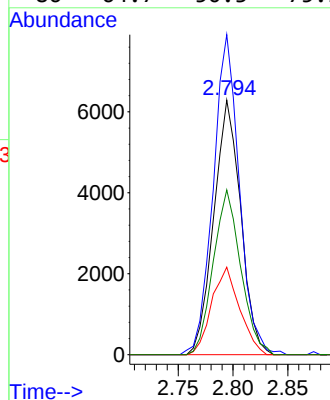
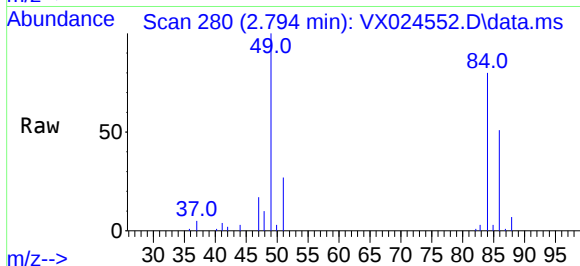


#20  
Methylene Chloride  
Concen: 5.672 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.006 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
149-ENV-1-GRAB

Tgt Ion: 84 Resp: 10736

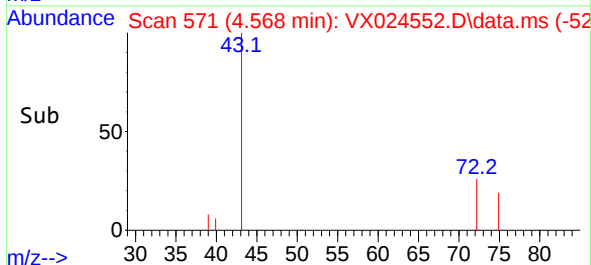
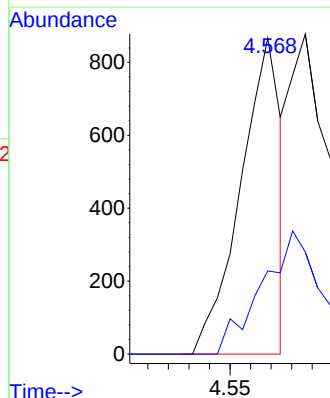
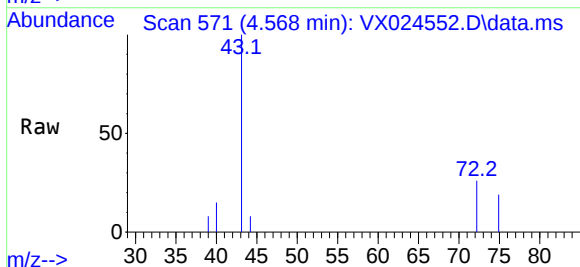
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 125.7 | 88.6  | 132.8 |
| 51  | 34.4  | 27.0  | 40.6  |
| 86  | 64.7  | 50.3  | 75.5  |

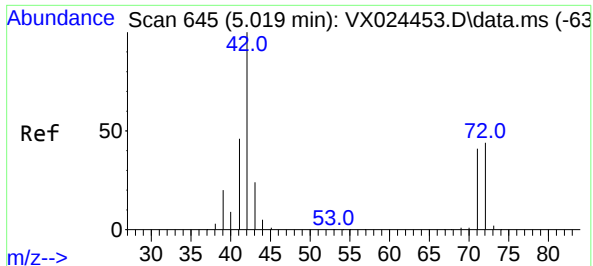


#25  
2-Butanone  
Concen: 0.800 ug/l  
RT: 4.568 min Scan# 571  
Delta R.T. 0.000 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

Tgt Ion: 43 Resp: 1182

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 26.3  | 23.7  | 35.5  |





#29

Tetrahydrofuran

Concen: 0.485 ug/l

RT: 5.044 min Scan# 649

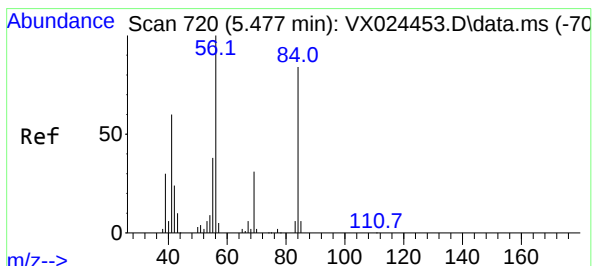
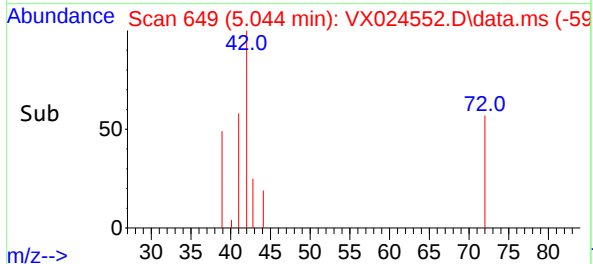
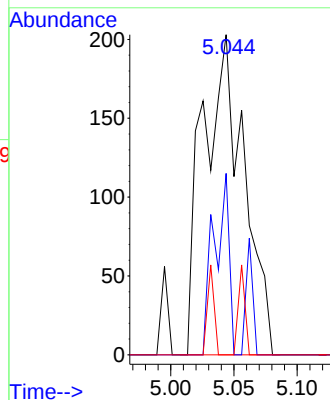
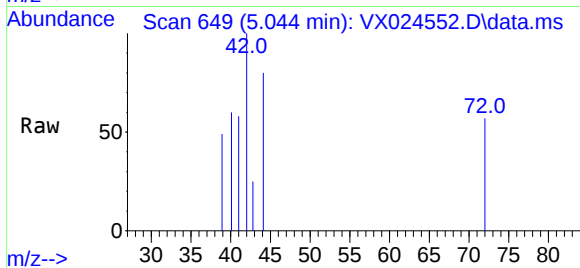
Delta R.T. 0.025 min

Lab File: VX024552.D

Acq: 05 Oct 2021 04:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 457   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 20.6  | 41.7  | 62.5# |
| 71       | 4.6   | 38.4  | 57.6# |

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#31

Cyclohexane

Concen: 1.165 ug/l

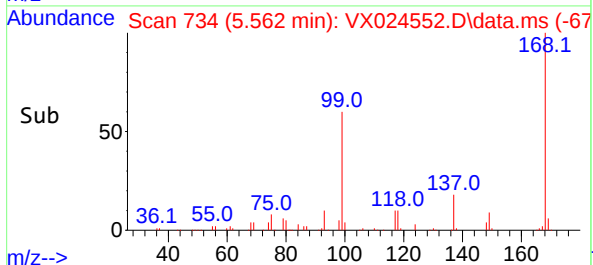
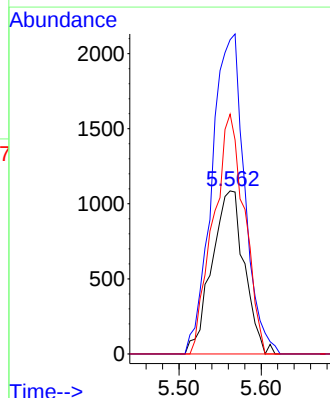
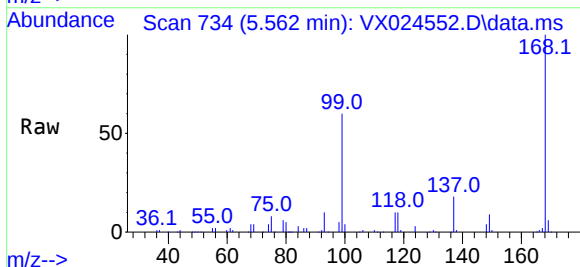
RT: 5.562 min Scan# 734

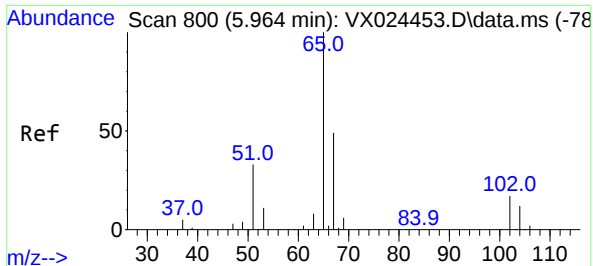
Delta R.T. 0.085 min

Lab File: VX024552.D

Acq: 05 Oct 2021 04:52

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 2993   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 192.7 | 25.3  | 37.9#  |
| 84       | 147.1 | 71.4  | 107.0# |



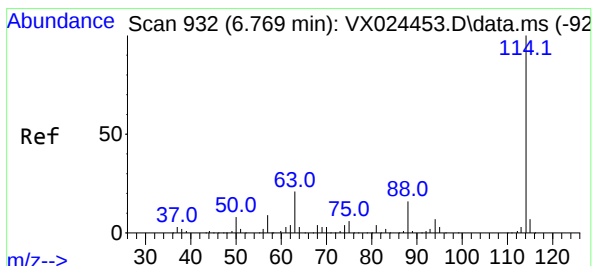
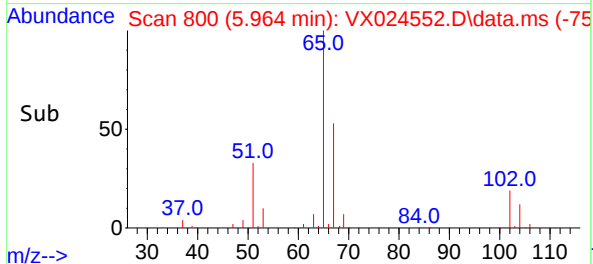
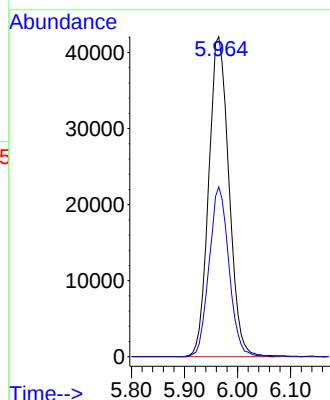
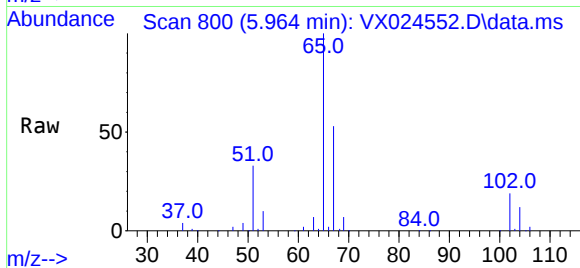


#33

1,2-Dichloroethane-d4  
Concen: 51.924 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.000 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

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149-ENV-1-GRAB

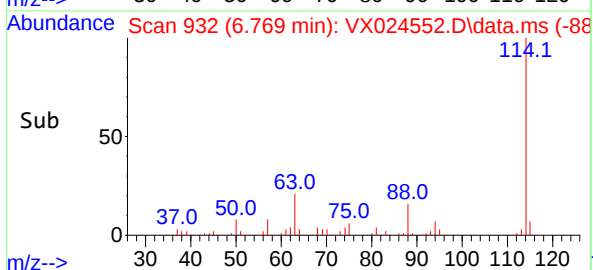
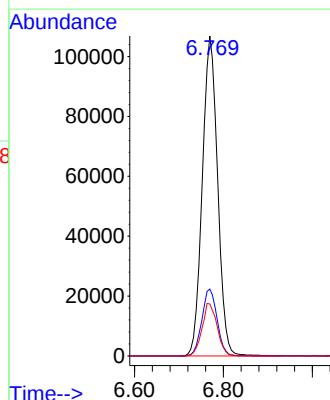
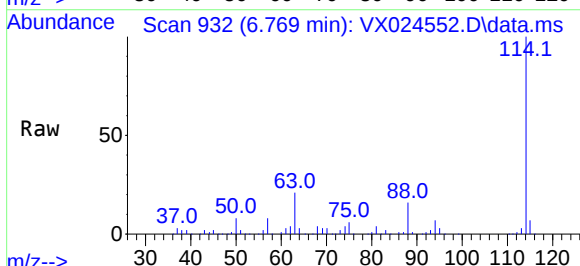
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Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 105.4

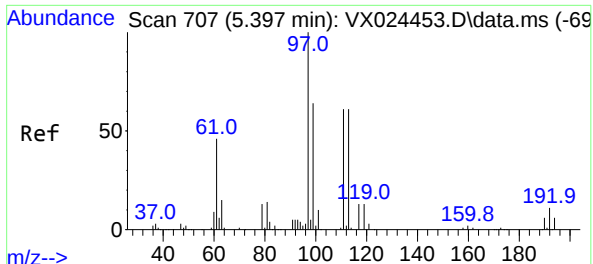


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. 0.000 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

Tgt Ion: 114 Resp: 256563  
Ion Ratio Lower Upper  
114 100  
63 20.9 0.0 40.8  
88 16.3 0.0 32.8





#35

Dibromofluoromethane

Concen: 53.670 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX024552.D

Acq: 05 Oct 2021 04:52

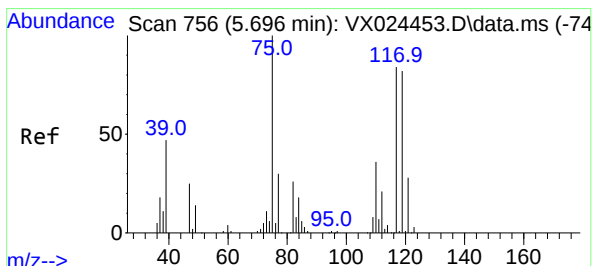
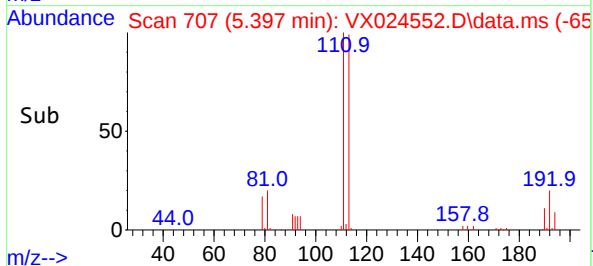
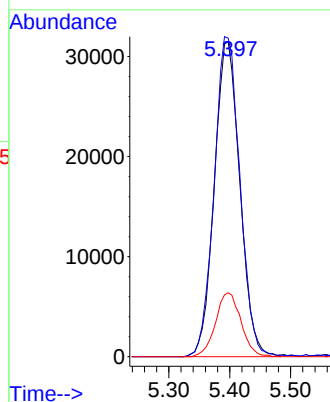
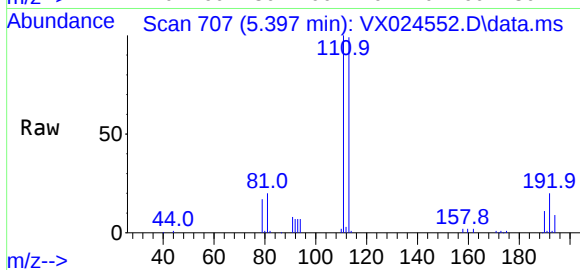
Tgt Ion:113 Resp: 91475

Ion Ratio Lower Upper

113 100

111 102.5 81.9 122.9

192 20.2 16.7 25.1



#36

1,1-Dichloropropene

Concen: 4.899 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX024552.D

Acq: 05 Oct 2021 04:52

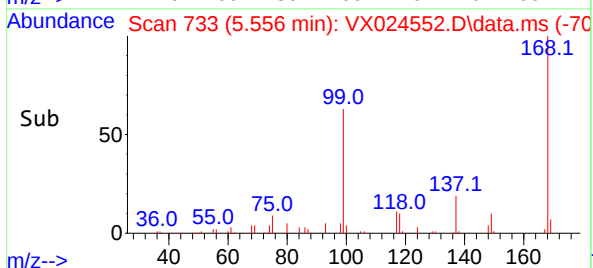
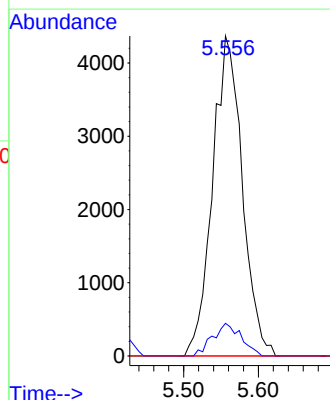
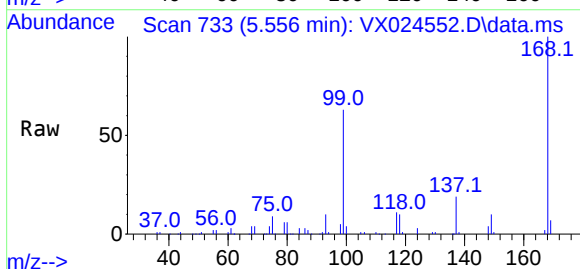
Tgt Ion: 75 Resp: 12049

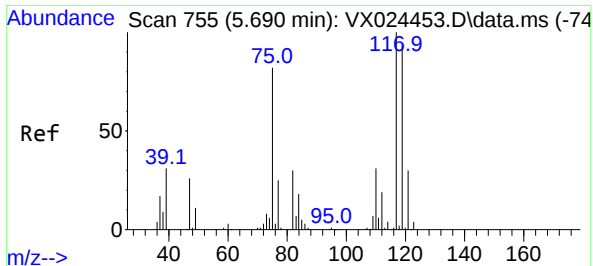
Ion Ratio Lower Upper

75 100

110 9.8 18.1 54.4#

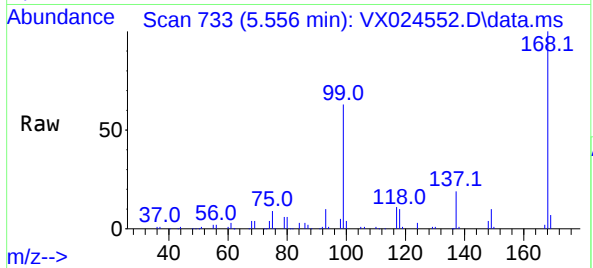
77 0.0 25.3 37.9#



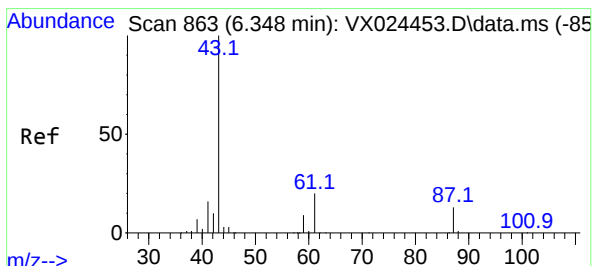
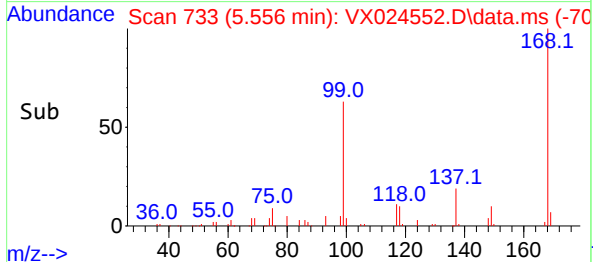
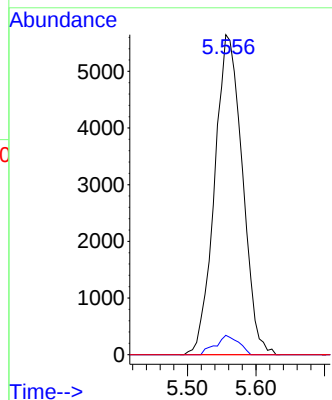


#38  
Carbon Tetrachloride  
Concen: 5.945 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.134 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
149-ENV-1-GRAB

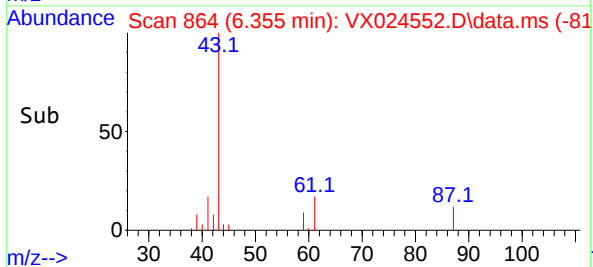
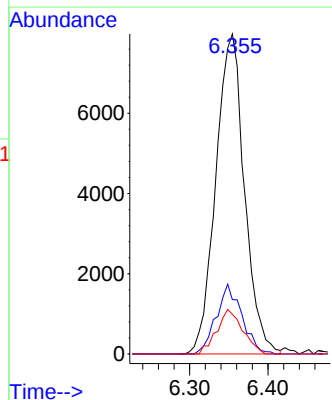
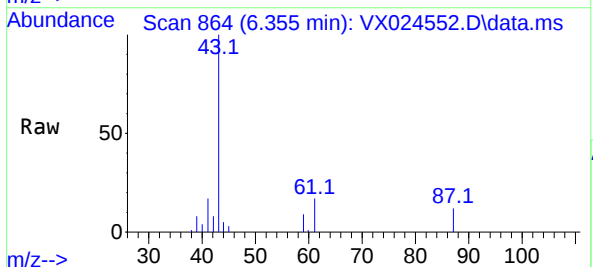


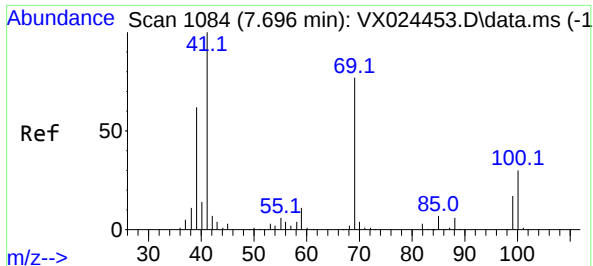
Tgt Ion:117 Resp: 15916  
Ion Ratio Lower Upper  
117 100  
119 6.1 76.2 114.2#  
121 0.0 24.8 37.2#



#43  
Isopropyl Acetate  
Concen: 4.339 ug/l  
RT: 6.355 min Scan# 864  
Delta R.T. 0.007 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

Tgt Ion: 43 Resp: 20255  
Ion Ratio Lower Upper  
43 100  
61 19.5 18.2 27.4  
87 12.5 12.5 18.7



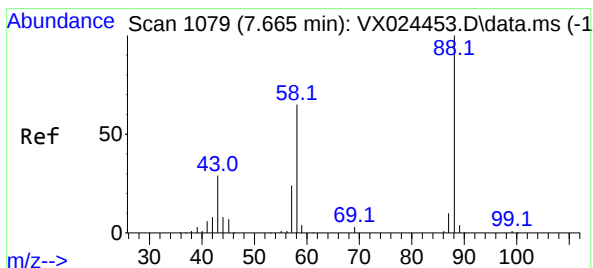
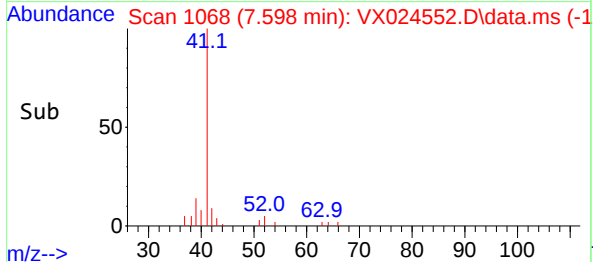
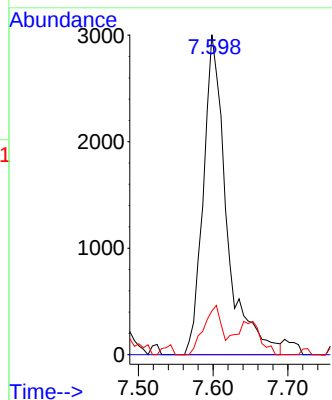
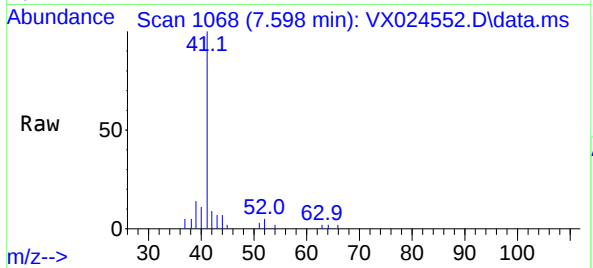


#48  
Methyl methacrylate  
Concen: 2.832 ug/l  
RT: 7.598 min Scan# 1068  
Delta R.T. -0.098 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
149-ENV-1-GRAB

Tgt Ion: 41 Resp: 6547

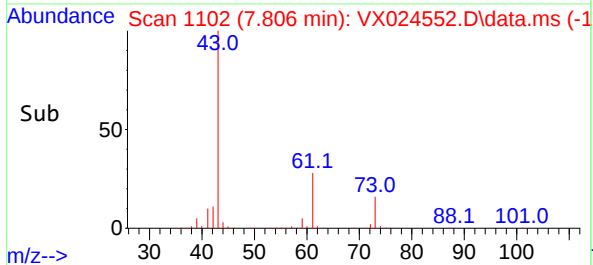
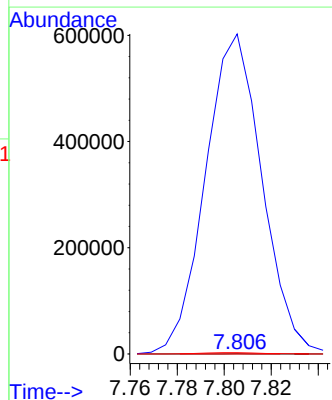
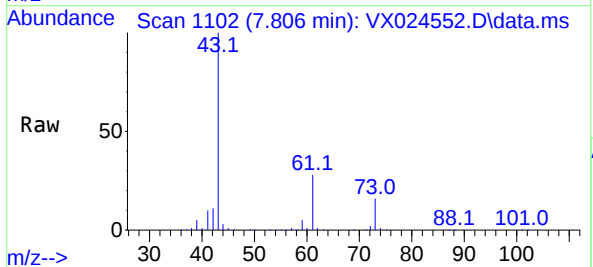
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 41  | 100   |       |        |
| 69  | 0.0   | 76.0  | 114.0# |
| 39  | 0.0   | 44.6  | 67.0#  |

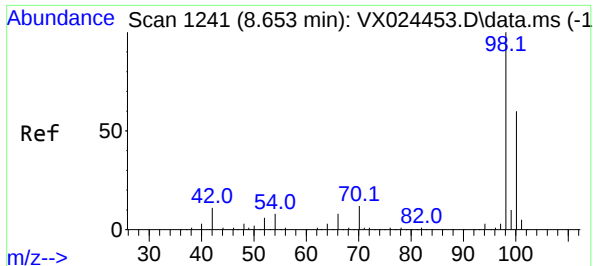


#49  
1,4-Dioxane  
Concen: 2.946 ug/l  
RT: 7.806 min Scan# 1102  
Delta R.T. 0.141 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

Tgt Ion: 88 Resp: 156

| Ion | Ratio    | Lower | Upper |
|-----|----------|-------|-------|
| 88  | 100      |       |       |
| 43  | 652478.8 | 23.2  | 34.8# |
| 58  | 2821.8   | 55.0  | 82.4# |

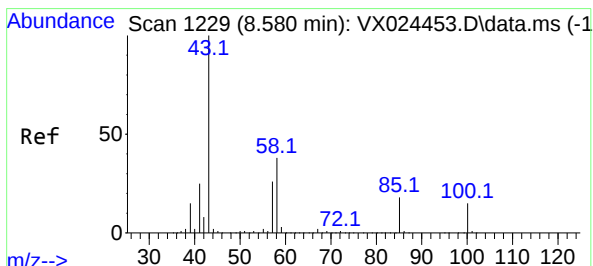
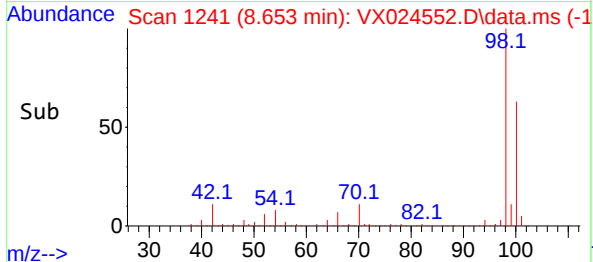
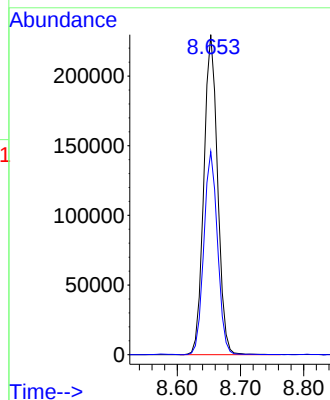
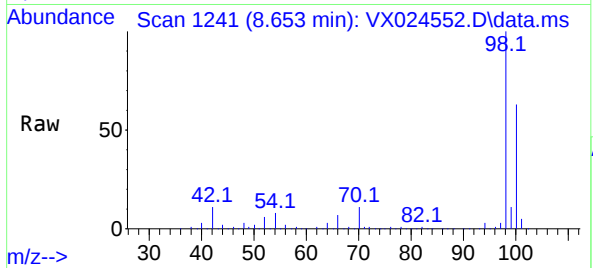




#50  
Toluene-d8  
Concen: 55.497 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

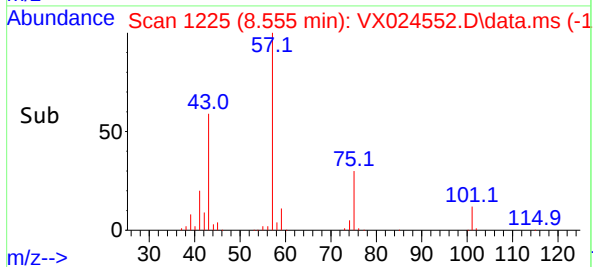
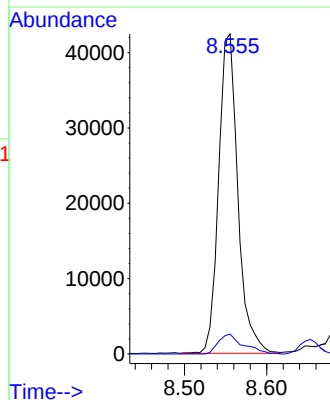
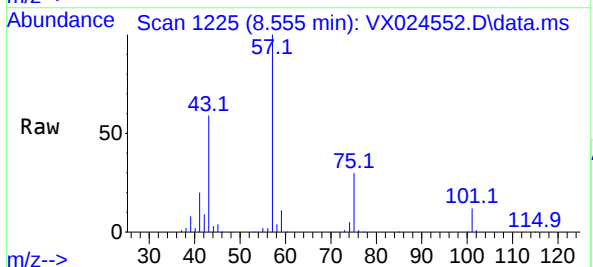
Instrument :  
MSVOA\_X  
ClientSampleId :  
149-ENV-1-GRAB

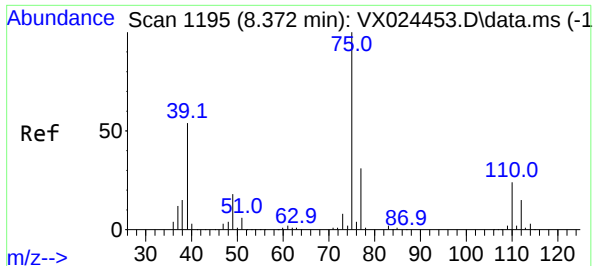
Tgt Ion: 98 Resp: 348138  
Ion Ratio Lower Upper  
98 100  
100 63.2 51.9 77.9



#51  
4-Methyl-2-Pentanone  
Concen: 22.380 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. -0.025 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

Tgt Ion: 43 Resp: 68975  
Ion Ratio Lower Upper  
43 100  
58 8.0 35.4 53.0#

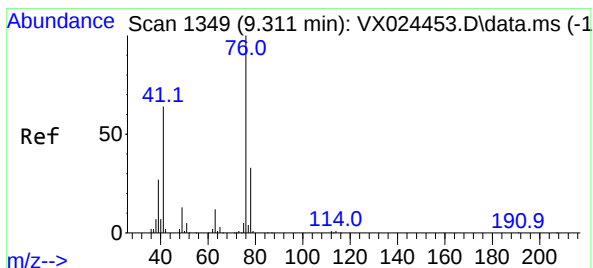
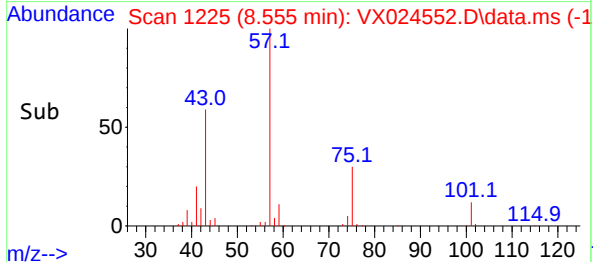
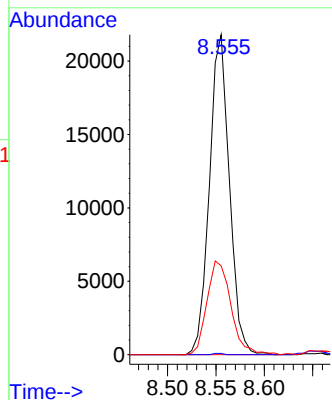
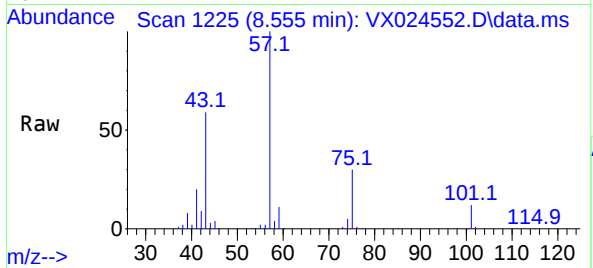




#54  
cis-1,3-Dichloropropene  
Concen: 10.914 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. 0.183 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

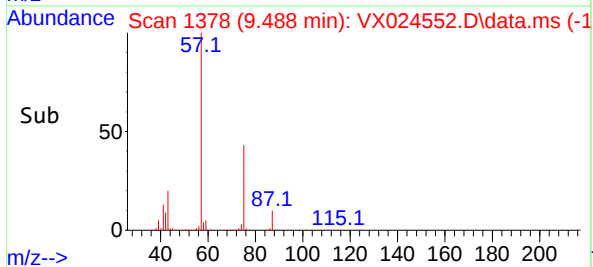
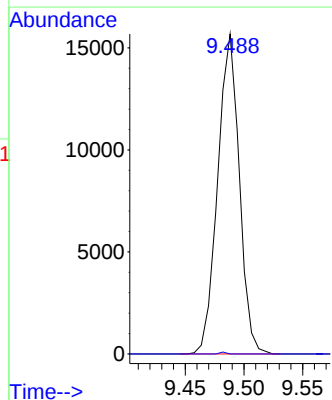
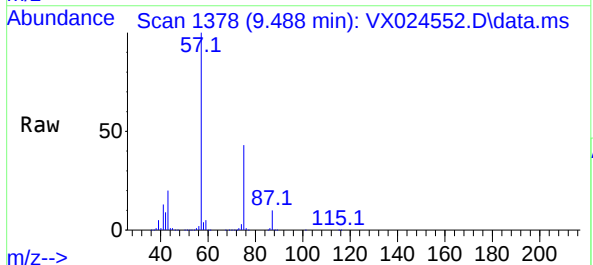
Instrument :  
MSVOA\_X  
ClientSampleId :  
149-ENV-1-GRAB

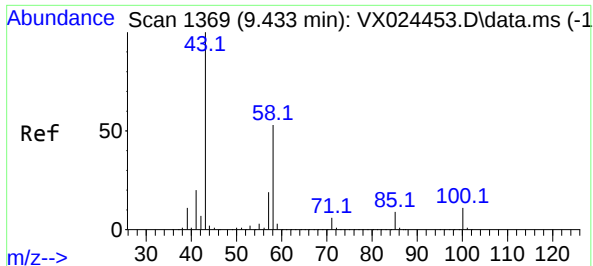
Tgt Ion: 75 Resp: 31364  
Ion Ratio Lower Upper  
75 100  
77 0.4 25.7 38.5#  
39 27.7 35.1 52.7#



#57  
1,3-Dichloropropane  
Concen: 6.331 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.177 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

Tgt Ion: 76 Resp: 20067  
Ion Ratio Lower Upper  
76 100  
78 0.2 26.2 39.2#

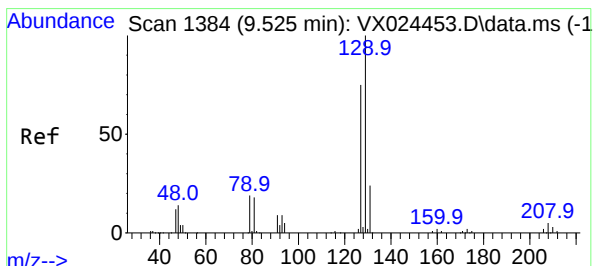
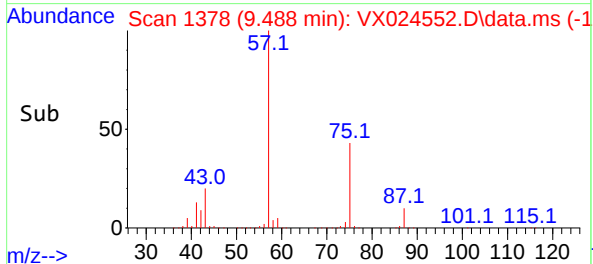
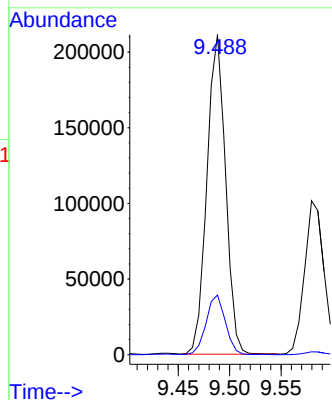
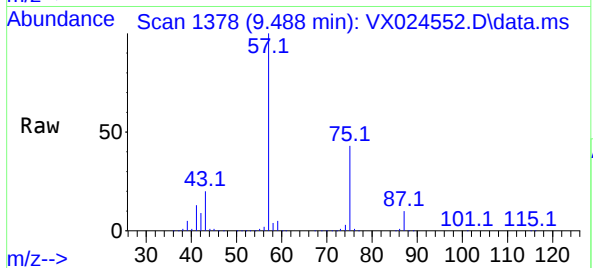




#59  
2-Hexanone  
Concen: 109.877 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.055 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

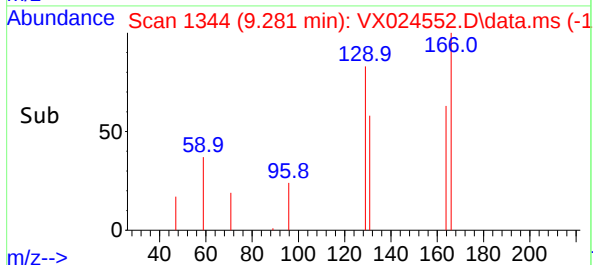
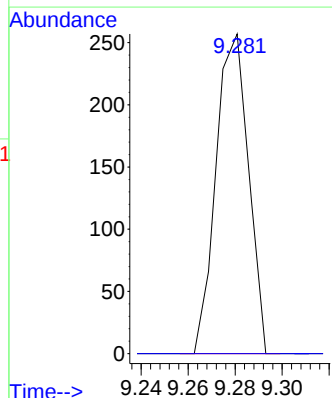
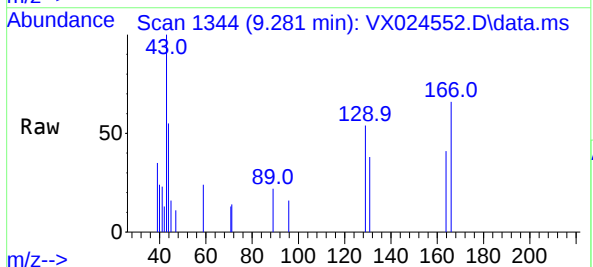
Instrument :  
MSVOA\_X  
ClientSampleId :  
149-ENV-1-GRAB

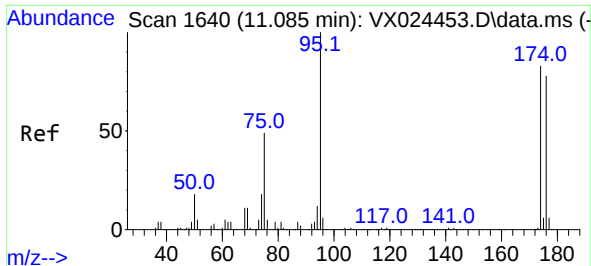
Tgt Ion: 43 Resp: 266686  
Ion Ratio Lower Upper  
43 100  
58 19.3 30.9 92.8#



#60  
Dibromochloromethane  
Concen: 1.300 ug/l  
RT: 9.281 min Scan# 1344  
Delta R.T. -0.244 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

Tgt Ion:129 Resp: 246  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.4 115.2#

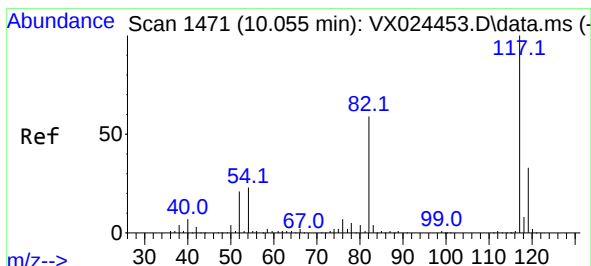
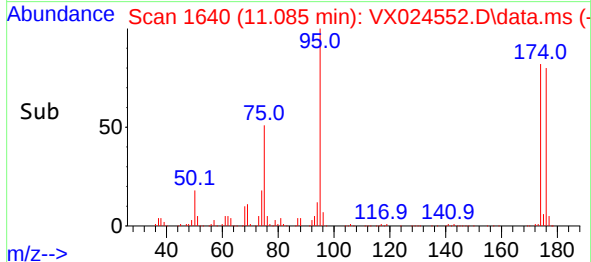
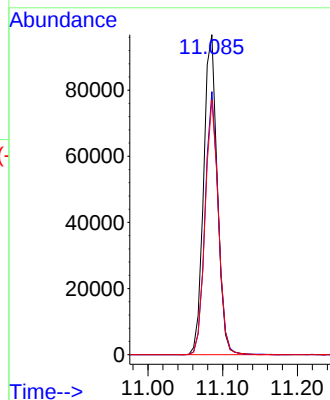
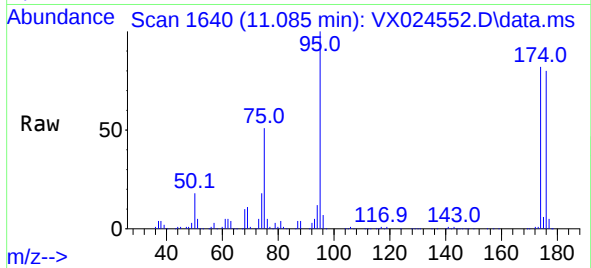




#62  
4-Bromofluorobenzene  
Concen: 49.806 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

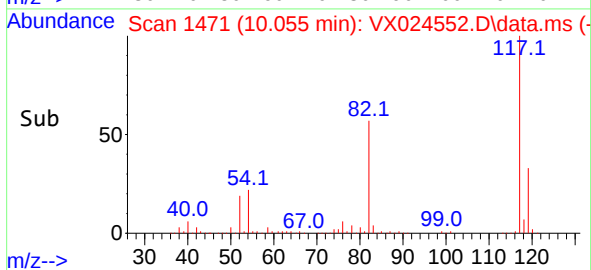
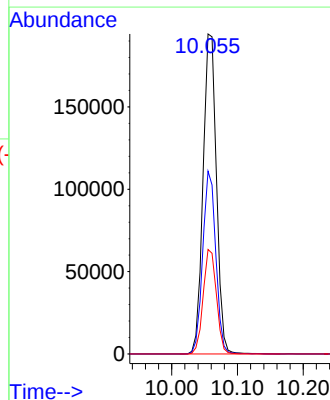
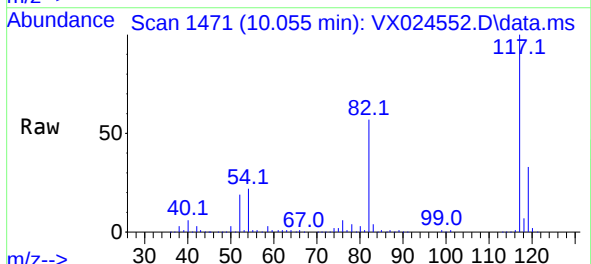
Instrument :  
MSVOA\_X  
ClientSampleId :  
149-ENV-1-GRAB

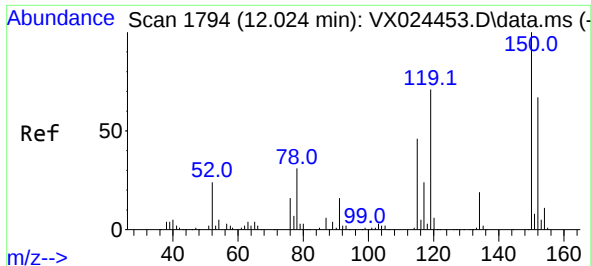
Tgt Ion: 95 Resp: 122846  
Ion Ratio Lower Upper  
95 100  
174 79.1 0.0 154.6  
176 77.4 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

Tgt Ion: 117 Resp: 275015  
Ion Ratio Lower Upper  
117 100  
82 57.1 47.4 71.2  
119 32.6 26.6 39.8

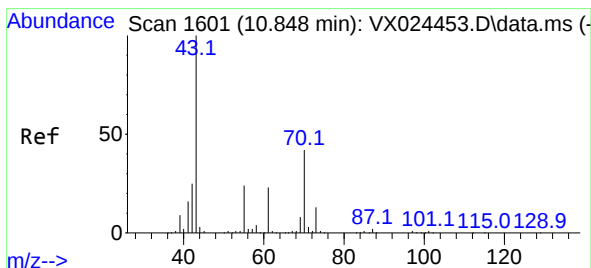
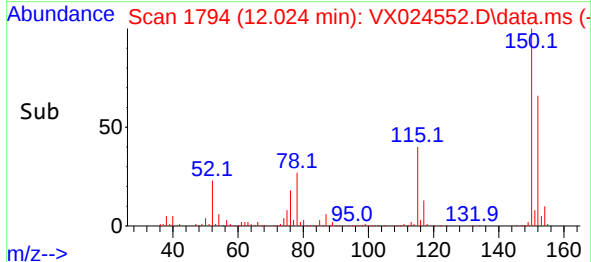
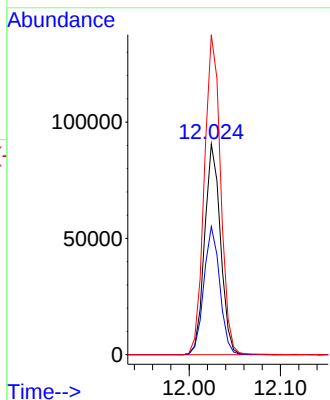
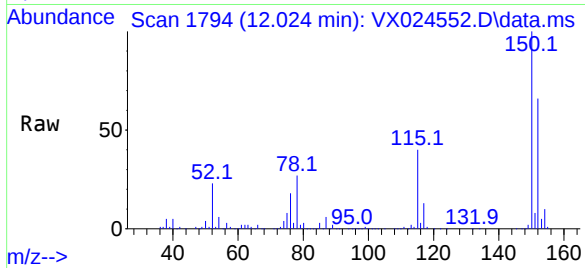




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

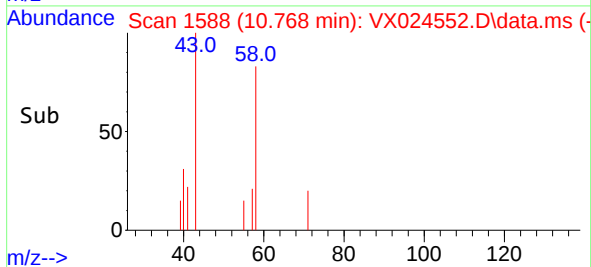
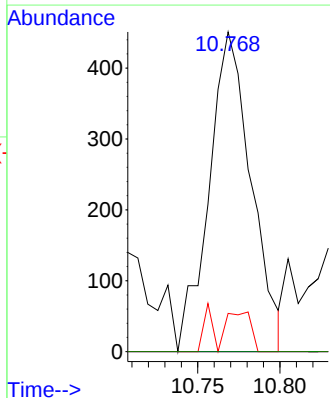
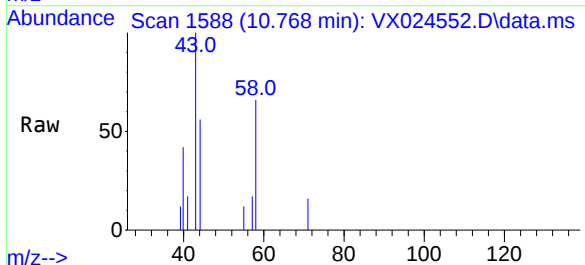
Instrument :  
MSVOA\_X  
ClientSampleId :  
149-ENV-1-GRAB

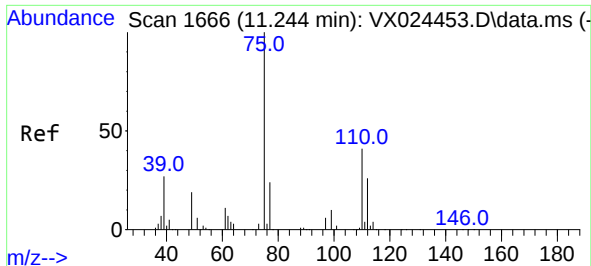
Tgt Ion:152 Resp: 108955  
Ion Ratio Lower Upper  
152 100  
115 61.0 41.1 123.3  
150 155.8 0.0 349.0



#74  
N-ethyl acetate  
Concen: 0.227 ug/l  
RT: 10.768 min Scan# 1588  
Delta R.T. -0.080 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

Tgt Ion: 43 Resp: 806  
Ion Ratio Lower Upper  
43 100  
70 0.0 39.0 58.6#  
55 7.3 21.5 32.3#  
61 0.0 22.1 33.1#

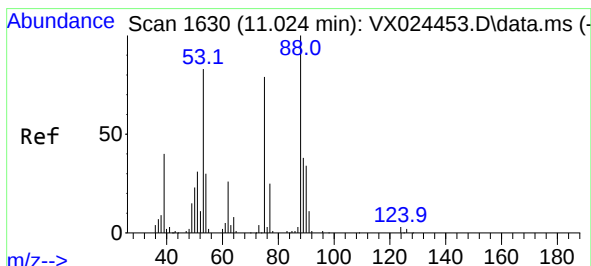
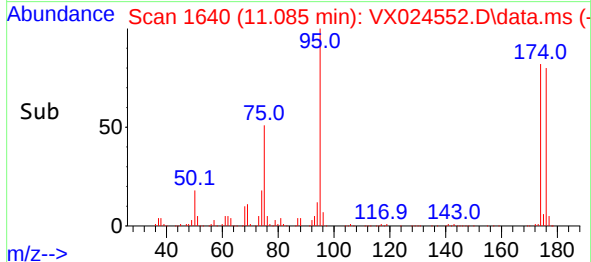
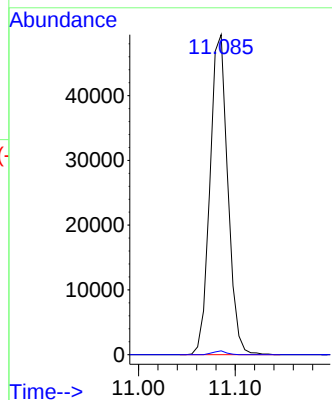
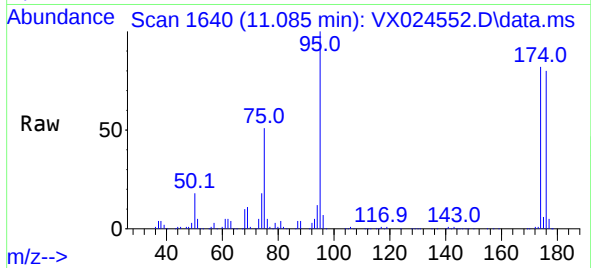




#76  
1,2,3-Trichloropropane  
Concen: 25.603 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
149-ENV-1-GRAB

Tgt Ion: 75 Resp: 63350  
Ion Ratio Lower Upper  
75 100  
77 0.9 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 69.772 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX024552.D  
Acq: 05 Oct 2021 04:52

Tgt Ion: 75 Resp: 63350  
Ion Ratio Lower Upper  
75 100  
53 0.1 74.5 111.7#  
89 0.1 37.9 56.9#

