

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN100721\  
 Data File : VN068843.D  
 Acq On : 7 Oct 2021 15:57  
 Operator : JC/MD  
 Sample : M4111-02  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

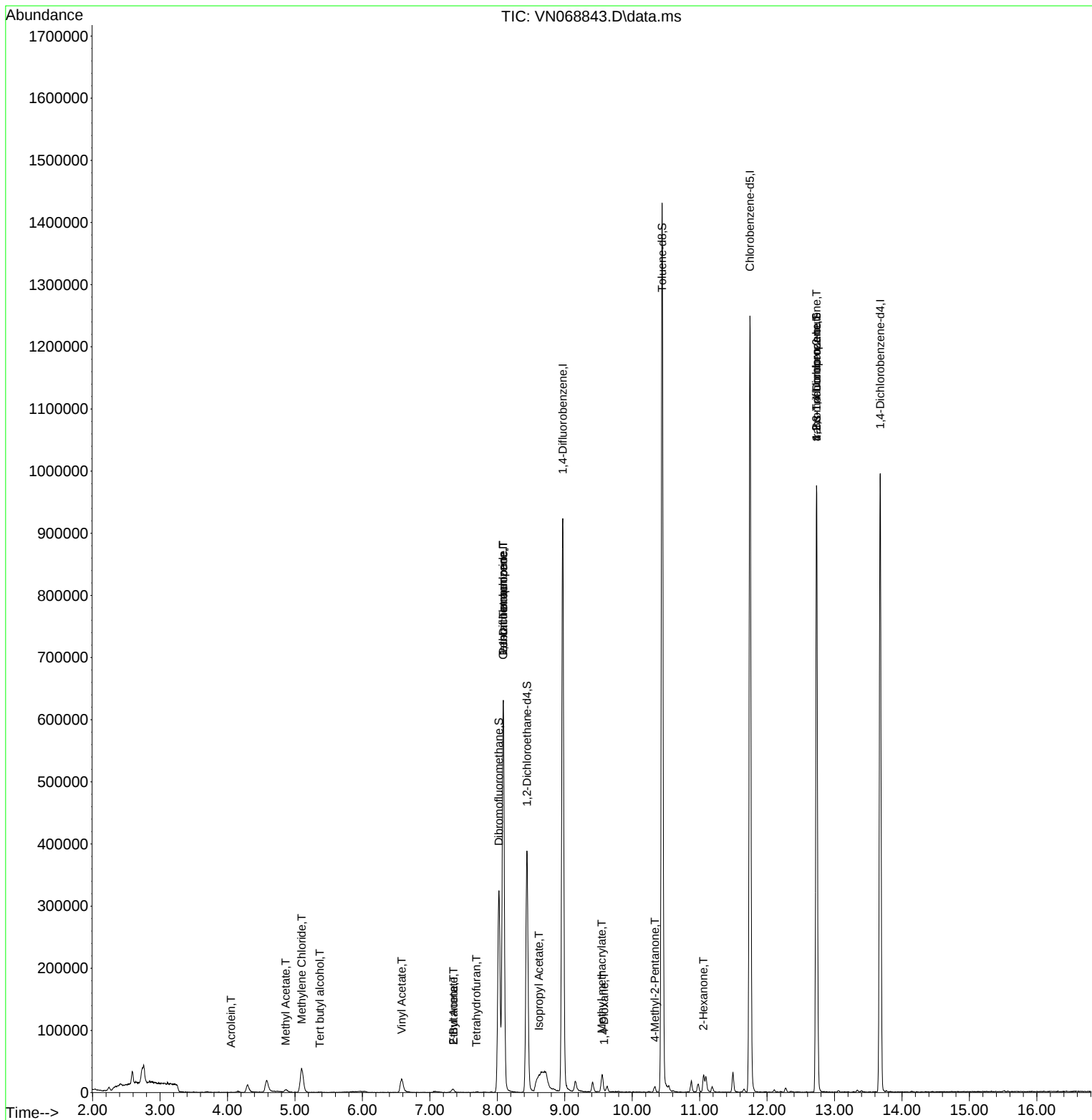
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 GROWS-1

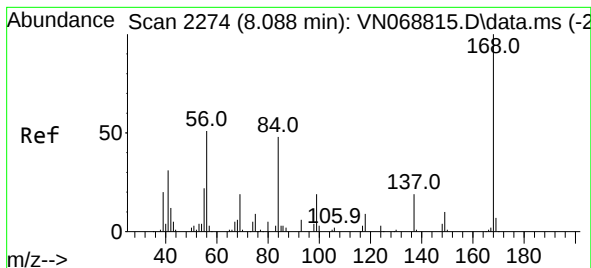
Quant Time: Oct 08 05:59:39 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N100621W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 06 14:41:09 2021  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 8.088          | 168  | 457125     | 50.000    | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.971          | 114  | 798574     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.746         | 117  | 712126     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.677         | 152  | 251603     | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.440          | 65   | 321436     | 47.848    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = | 95.700%   |        |          |
| 35) Dibromofluoromethane      | 8.024          | 113  | 234401     | 44.685    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = | 89.360%   |        |          |
| 50) Toluene-d8                | 10.443         | 98   | 979643     | 47.888    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = | 95.780%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.733         | 95   | 309431     | 40.979    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = | 81.960%   |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           |        | Qvalue   |
| 3) Chloromethane              | 2.301          | 50   | 948        | Below Cal |        | 94       |
| 4) Vinyl Chloride             | 2.435          | 62   | 115        | Below Cal | #      | 44       |
| 6) Chloroethane               | 3.019          | 64   | 513        | Below Cal | #      | 44       |
| 11) Tert butyl alcohol        | 5.366          | 59   | 298        | 0.373     | ug/l # | 71       |
| 13) Acrolein                  | 4.052          | 56   | 233        | 0.538     | ug/l # | 39       |
| 16) Acetone                   | 4.299          | 43   | 21111      | Below Cal |        | 95       |
| 17) Carbon Disulfide          | 4.532          | 76   | 93         | Below Cal | #      | 74       |
| 18) Methyl Acetate            | 4.864          | 43   | 9539       | 1.436     | ug/l # | 63       |
| 20) Methylene Chloride        | 5.098          | 84   | 30413      | 4.116     | ug/l   | 89       |
| 23) Vinyl Acetate             | 6.581          | 43   | 3296       | 0.296     | ug/l # | 75       |
| 25) 2-Butanone                | 7.351          | 43   | 8198       | 2.673     | ug/l   | 94       |
| 29) Tetrahydrofuran           | 7.691          | 42   | 443        | 0.236     | ug/l # | 50       |
| 31) Cyclohexane               | 8.088          | 56   | 13010      | Below Cal | #      | 45       |
| 36) 1,1-Dichloropropene       | 8.088          | 75   | 40239      | 6.374     | ug/l # | 53       |
| 37) Ethyl Acetate             | 7.351          | 43   | 8198       | 1.360     | ug/l # | 69       |
| 38) Carbon Tetrachloride      | 8.085          | 117  | 50418      | 6.631     | ug/l # | 18       |
| 43) Isopropyl Acetate         | 8.617          | 43   | 31502      | 2.875     | ug/l # | 58       |
| 48) Methyl methacrylate       | 9.547          | 41   | 8872       | 1.896     | ug/l # | 32       |
| 49) 1,4-Dioxane               | 9.585          | 88   | 53         | 0.520     | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.338         | 43   | 6203       | 0.889     | ug/l # | 68       |
| 59) 2-Hexanone                | 11.057         | 43   | 25883      | 5.145     | ug/l # | 28       |
| 76) 1,2,3-Trichloropropane    | 12.733         | 75   | 181439     | 36.583    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.733         | 75   | 181439     | 105.979   | ug/l # | 6        |
| -----                         |                |      |            |           |        |          |

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

Quant Time: Oct 08 05:59:39 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N100621W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 06 14:41:09 2021  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.088 min Scan# 2274

Delta R.T. 0.000 min

Lab File: VN068843.D

Acq: 7 Oct 2021 15:57

Tgt Ion:168 Resp: 457125

Ion Ratio Lower Upper

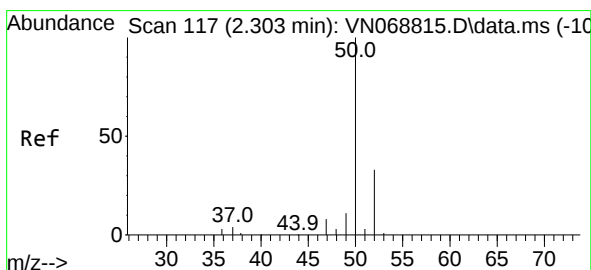
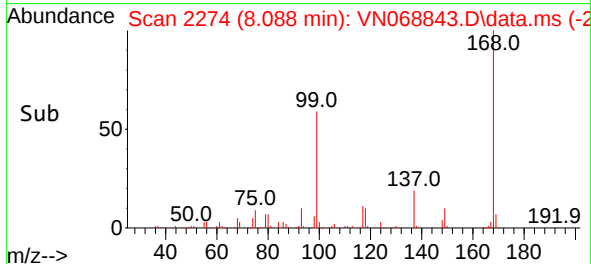
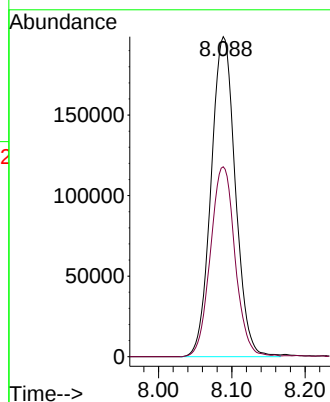
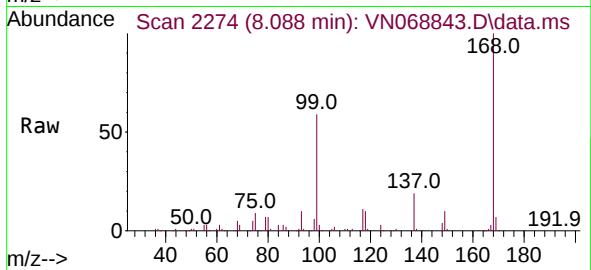
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 168 | 100   |       |       |
| 99  | 59.4  | 62.9  | 94.3# |

Instrument :

MSVOA\_N

ClientSampled :

GROWS-1



#3

Chloromethane

Concen: Below Cal

RT: 2.301 min Scan# 116

Delta R.T. -0.002 min

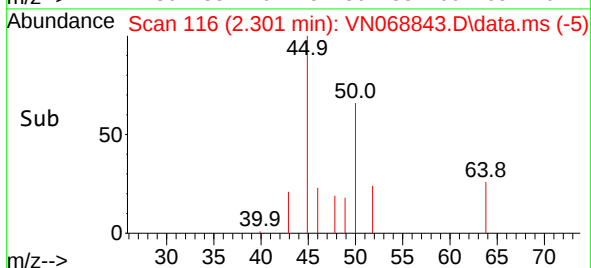
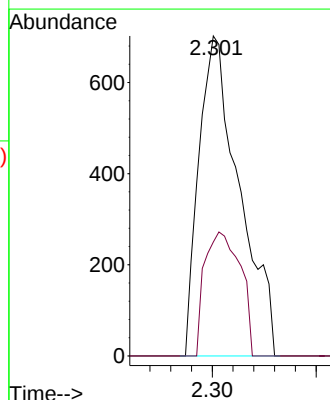
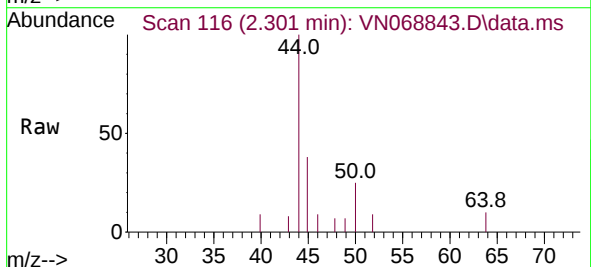
Lab File: VN068843.D

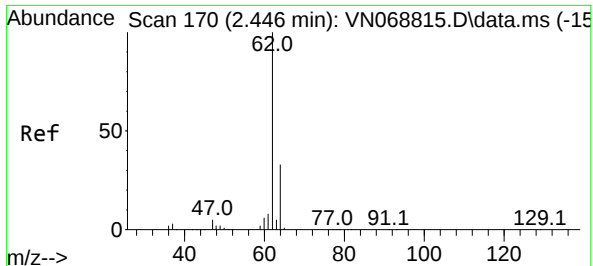
Acq: 7 Oct 2021 15:57

Tgt Ion: 50 Resp: 948

Ion Ratio Lower Upper

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 50  | 100   |       |       |
| 52  | 35.6  | 25.6  | 38.4  |

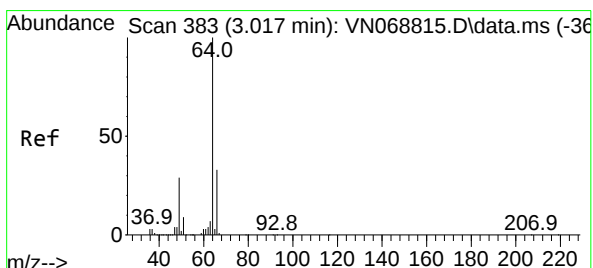
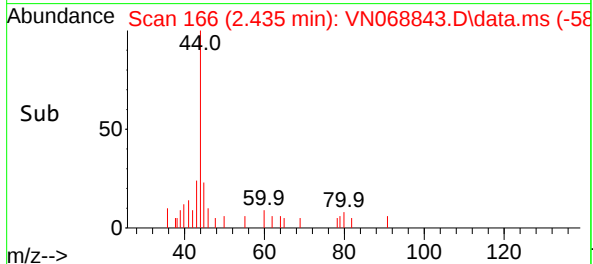
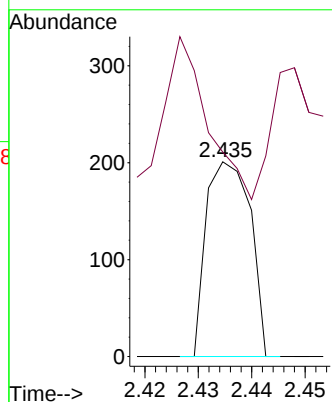
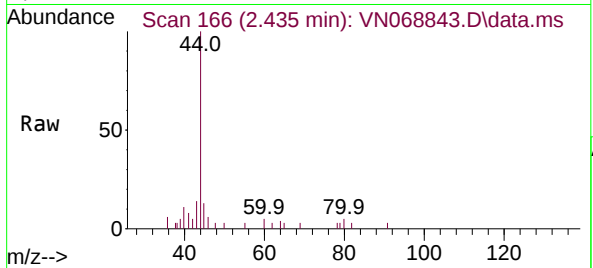




#4  
 Vinyl Chloride  
 Concen: Below Cal  
 RT: 2.435 min Scan# 166  
 Delta R.T. -0.011 min  
 Lab File: VN068843.D  
 Acq: 7 Oct 2021 15:57

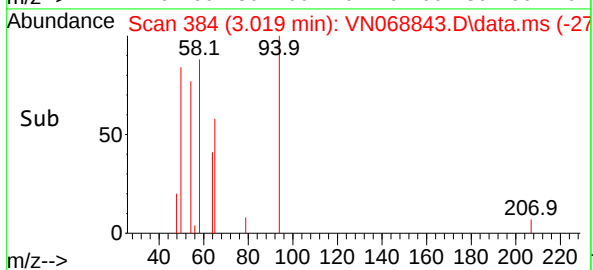
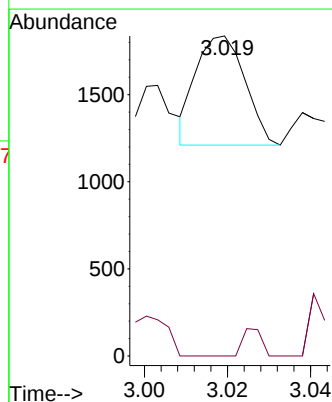
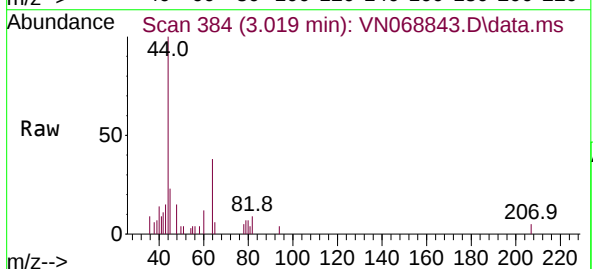
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 GROWS-1

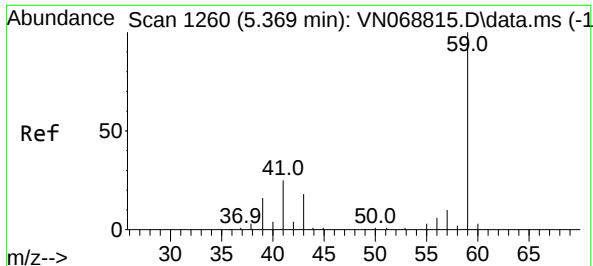
Tgt Ion: 62 Resp: 115  
 Ion Ratio Lower Upper  
 62 100  
 64 0.0 24.4 36.6#



#6  
 Chloroethane  
 Concen: Below Cal  
 RT: 3.019 min Scan# 384  
 Delta R.T. 0.002 min  
 Lab File: VN068843.D  
 Acq: 7 Oct 2021 15:57

Tgt Ion: 64 Resp: 513  
 Ion Ratio Lower Upper  
 64 100  
 66 0.0 24.7 37.1#



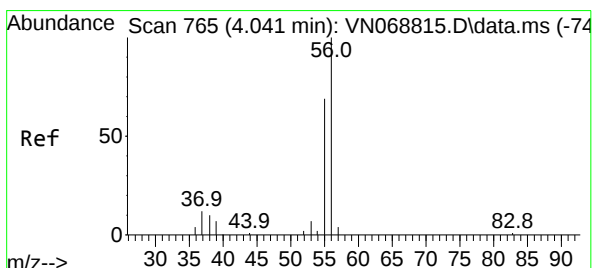
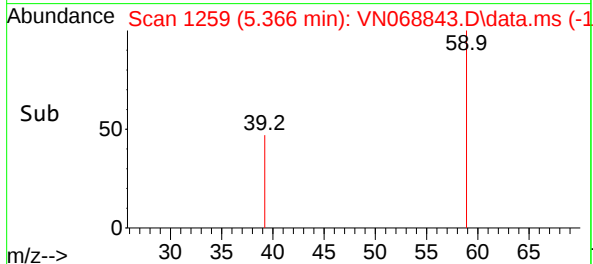
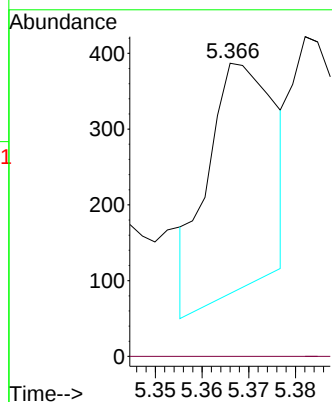
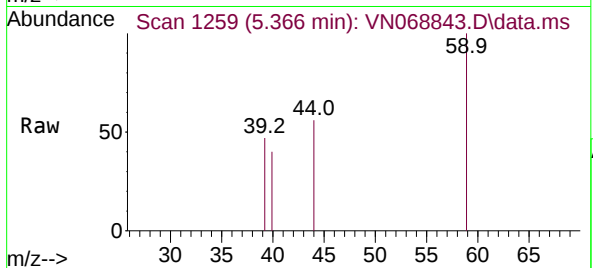


#11

Tert butyl alcohol  
Concen: 0.373 ug/l  
RT: 5.366 min Scan# 1259  
Delta R.T. -0.003 min  
Lab File: VN068843.D  
Acq: 7 Oct 2021 15:57

Instrument :  
MSVOA\_N  
ClientSampled :  
GROWS-1

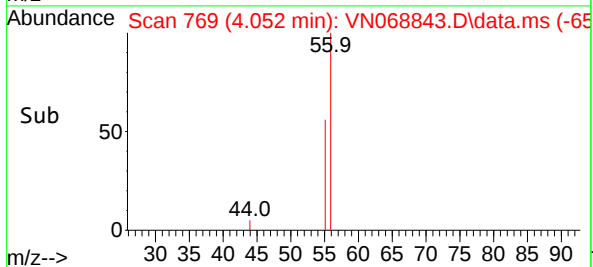
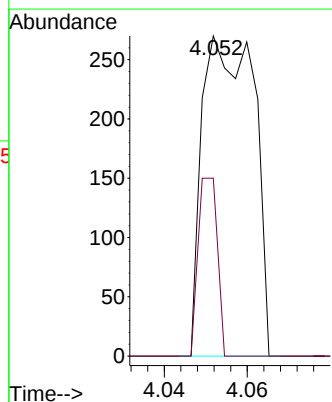
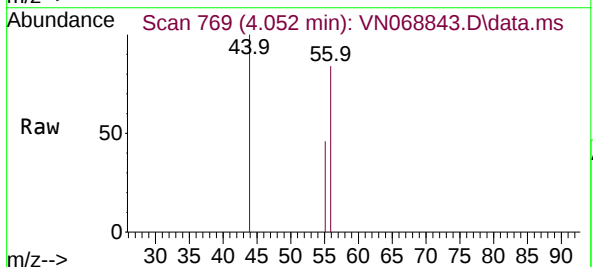
Tgt Ion: 59 Resp: 298  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.7 13.1#

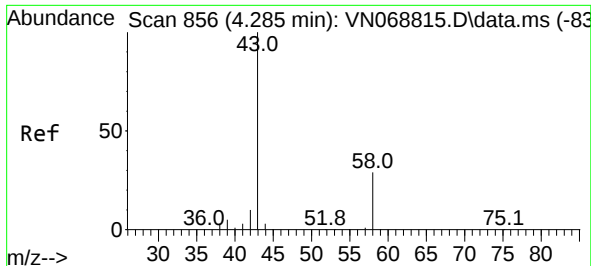


#13

Acrolein  
Concen: 0.538 ug/l  
RT: 4.052 min Scan# 769  
Delta R.T. 0.011 min  
Lab File: VN068843.D  
Acq: 7 Oct 2021 15:57

Tgt Ion: 56 Resp: 233  
Ion Ratio Lower Upper  
56 100  
55 20.6 57.4 86.0#

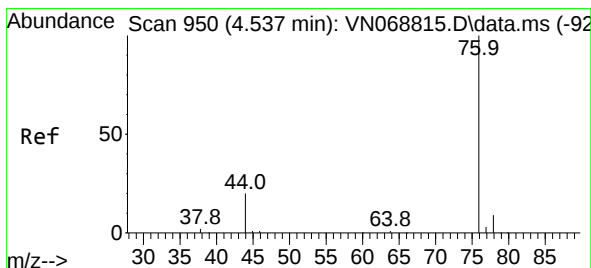
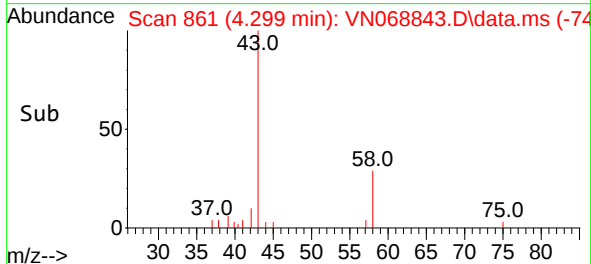
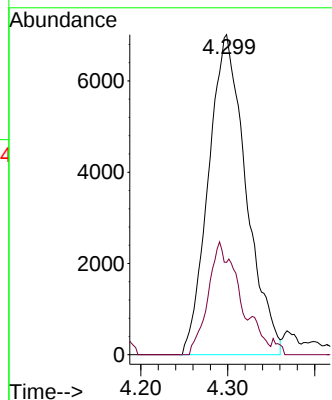
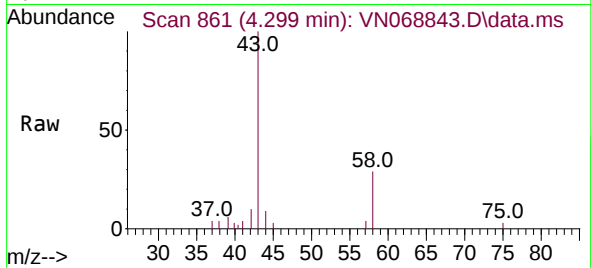




#16  
Acetone  
Concen: Below Cal  
RT: 4.299 min Scan# 861  
Delta R.T. 0.014 min  
Lab File: VN068843.D  
Acq: 7 Oct 2021 15:57

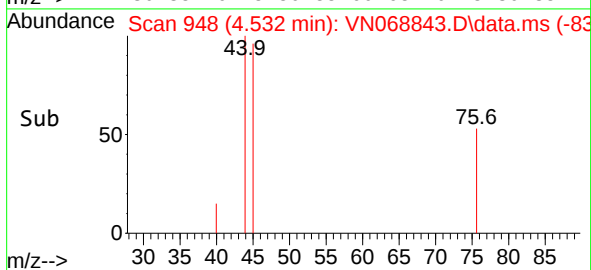
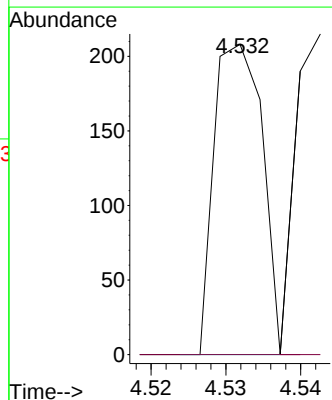
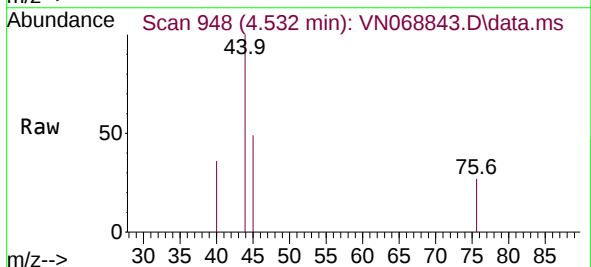
Instrument :  
MSVOA\_N  
ClientSampled :  
GROWS-1

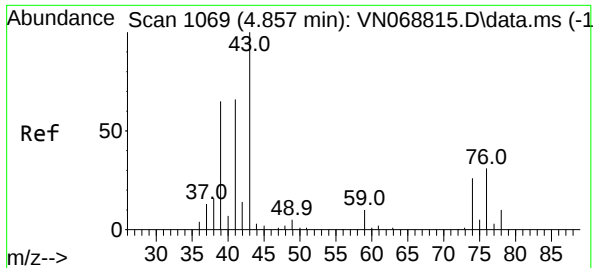
Tgt Ion: 43 Resp: 21111  
Ion Ratio Lower Upper  
43 100  
58 28.9 21.2 31.8



#17  
Carbon Disulfide  
Concen: Below Cal  
RT: 4.532 min Scan# 948  
Delta R.T. -0.005 min  
Lab File: VN068843.D  
Acq: 7 Oct 2021 15:57

Tgt Ion: 76 Resp: 93  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.7 11.5#

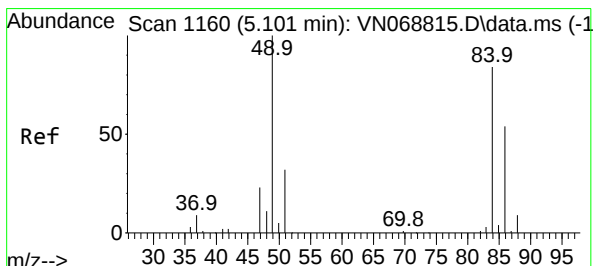
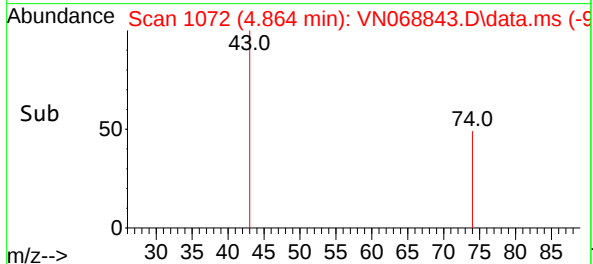
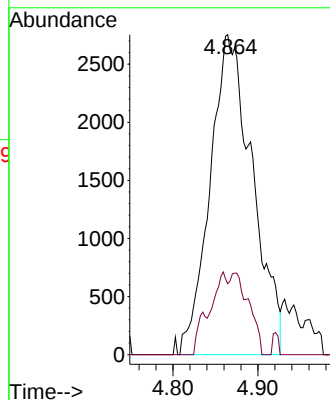
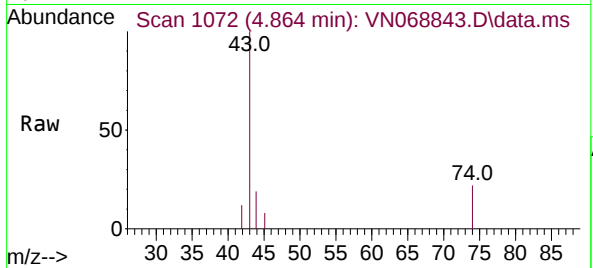




#18  
Methyl Acetate  
Concen: 1.436 ug/l  
RT: 4.864 min Scan# 1072  
Delta R.T. 0.007 min  
Lab File: VN068843.D  
Acq: 7 Oct 2021 15:57

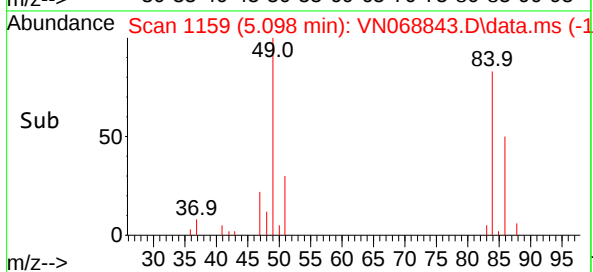
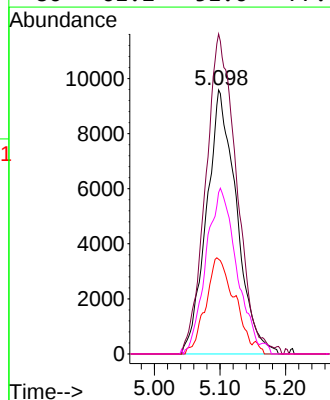
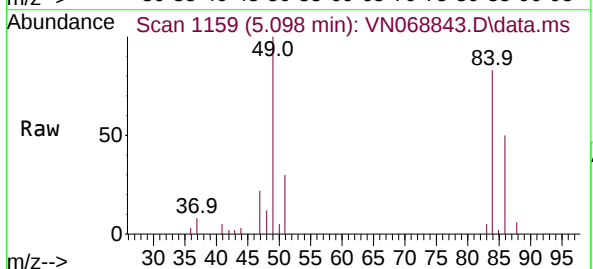
Instrument :  
MSVOA\_N  
ClientSampled :  
GROWS-1

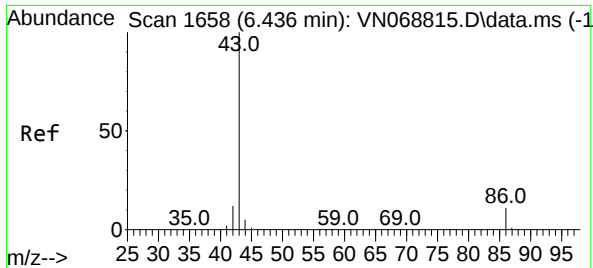
Tgt Ion: 43 Resp: 9539  
Ion Ratio Lower Upper  
43 100  
74 4.0 17.4 26.0#



#20  
Methylene Chloride  
Concen: 4.116 ug/l  
RT: 5.098 min Scan# 1159  
Delta R.T. -0.003 min  
Lab File: VN068843.D  
Acq: 7 Oct 2021 15:57

Tgt Ion: 84 Resp: 30413  
Ion Ratio Lower Upper  
84 100  
49 121.2 110.9 166.3  
51 35.9 32.6 49.0  
86 61.2 51.6 77.4

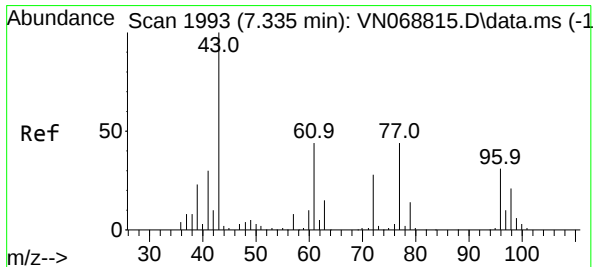
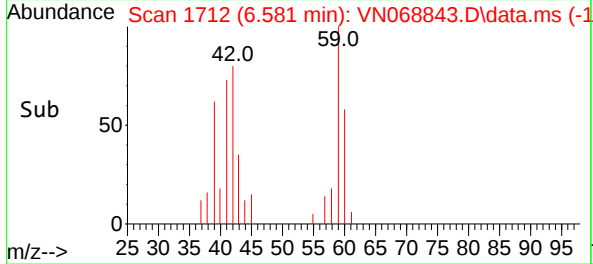
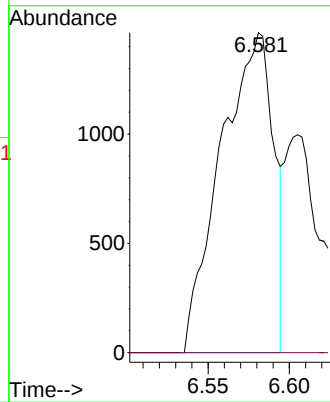
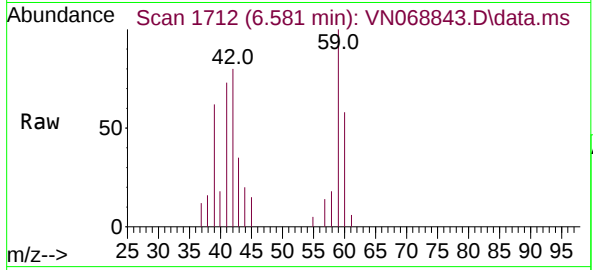




#23  
 Vinyl Acetate  
 Concen: 0.296 ug/l  
 RT: 6.581 min Scan# 1712  
 Delta R.T. 0.145 min  
 Lab File: VN068843.D  
 Acq: 7 Oct 2021 15:57

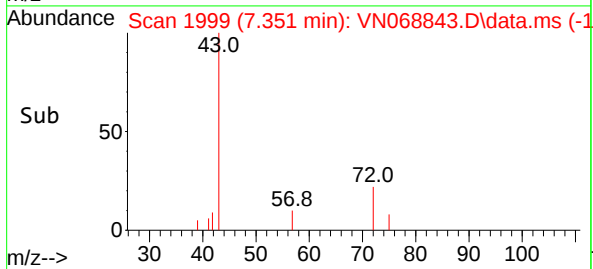
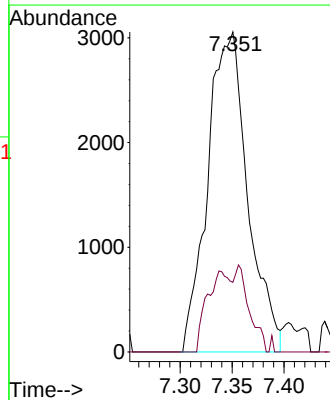
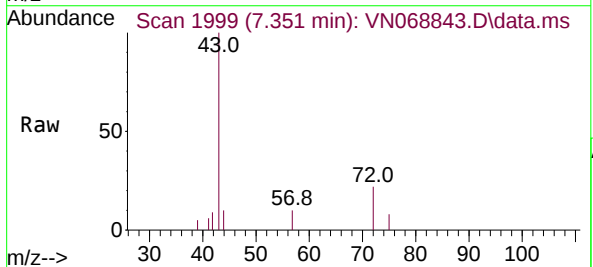
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 GROWS-1

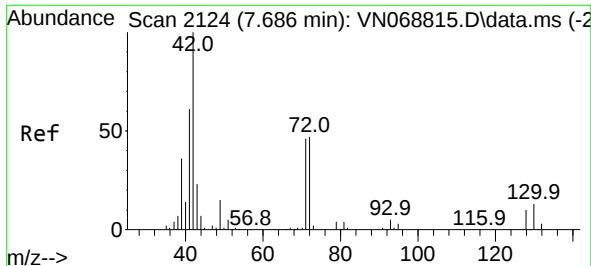
Tgt Ion: 43 Resp: 3296  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 7.3 10.9#



#25  
 2-Butanone  
 Concen: 2.673 ug/l  
 RT: 7.351 min Scan# 1999  
 Delta R.T. 0.016 min  
 Lab File: VN068843.D  
 Acq: 7 Oct 2021 15:57

Tgt Ion: 43 Resp: 8198  
 Ion Ratio Lower Upper  
 43 100  
 72 21.8 19.7 29.5





#29

Tetrahydrofuran

Concen: 0.236 ug/l

RT: 7.691 min Scan# 2126

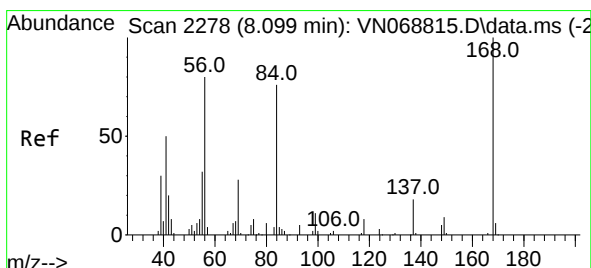
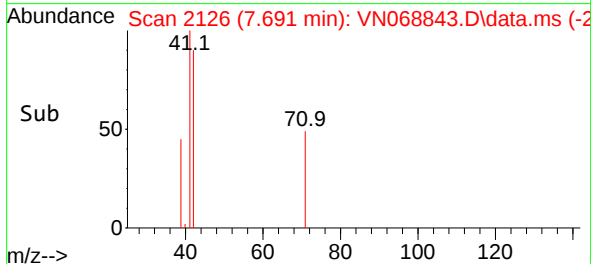
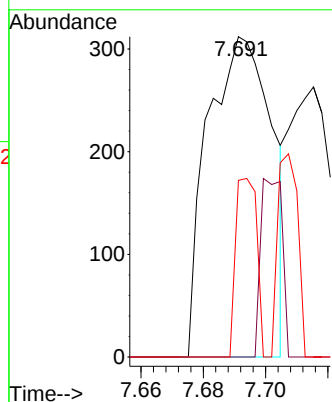
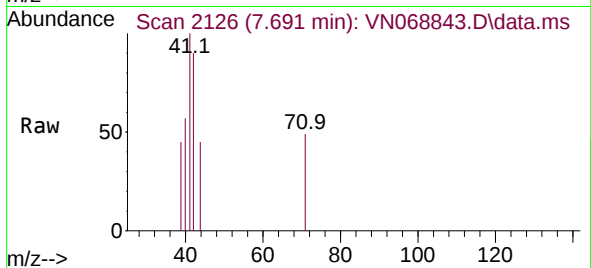
Delta R.T. 0.005 min

Lab File: VN068843.D

Acq: 7 Oct 2021 15:57

Instrument :  
MSVOA\_N  
ClientSampled :  
GROWS-1

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 443   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 32.8  | 49.2# |
| 71       | 18.5  | 31.2  | 46.8# |



#31

Cyclohexane

Concen: Below Cal

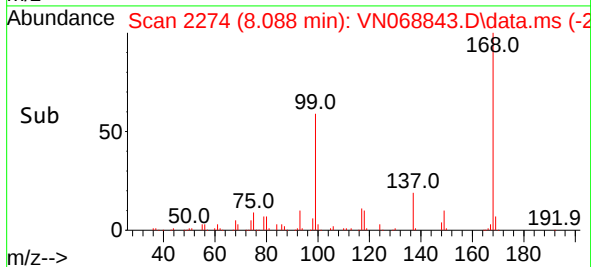
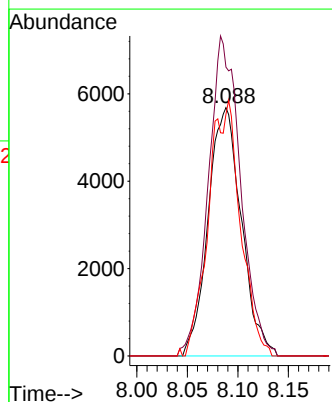
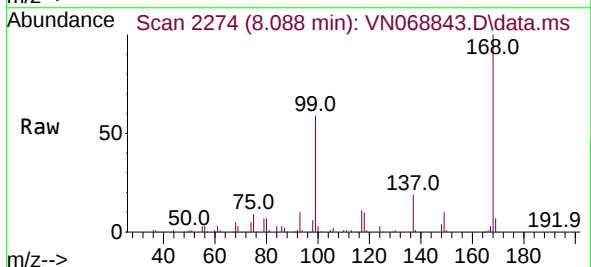
RT: 8.088 min Scan# 2274

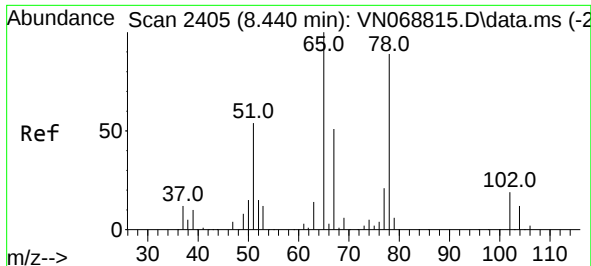
Delta R.T. -0.011 min

Lab File: VN068843.D

Acq: 7 Oct 2021 15:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 13010 |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 116.3 | 27.3  | 40.9# |
| 84       | 97.3  | 64.9  | 97.3  |



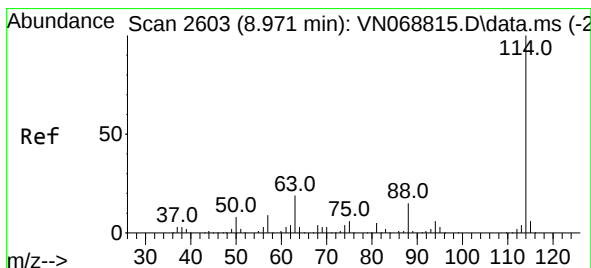
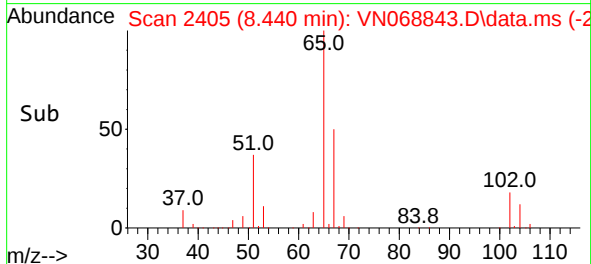
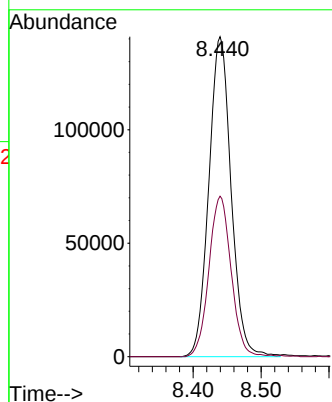
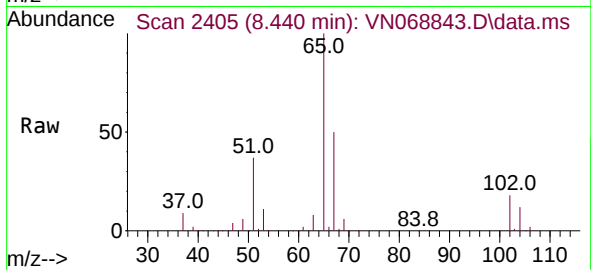


#33

1,2-Dichloroethane-d4  
Concen: 47.848 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. -0.000 min  
Lab File: VN068843.D  
Acq: 7 Oct 2021 15:57

Instrument :  
MSVOA\_N  
ClientSampleId :  
GROWS-1

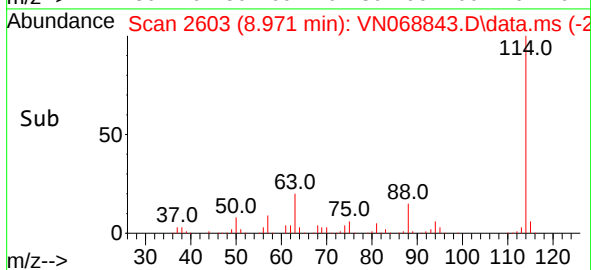
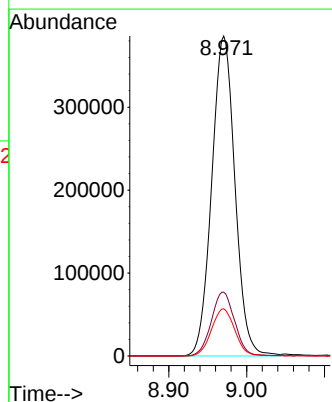
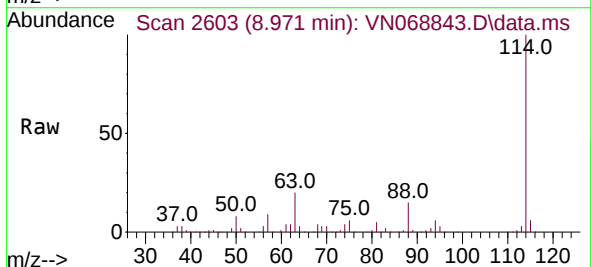
Tgt Ion: 65 Resp: 321436  
Ion Ratio Lower Upper  
65 100  
67 49.9 0.0 98.6

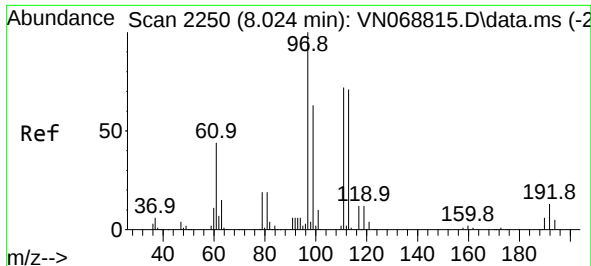


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. -0.000 min  
Lab File: VN068843.D  
Acq: 7 Oct 2021 15:57

Tgt Ion: 114 Resp: 798574  
Ion Ratio Lower Upper  
114 100  
63 20.0 0.0 49.0  
88 14.8 0.0 36.6

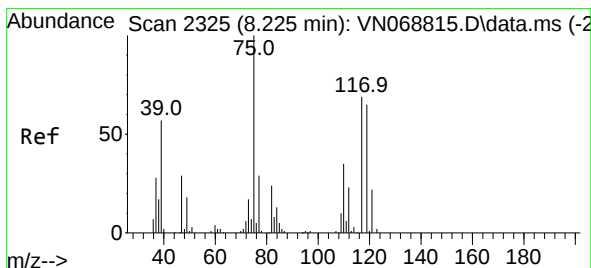
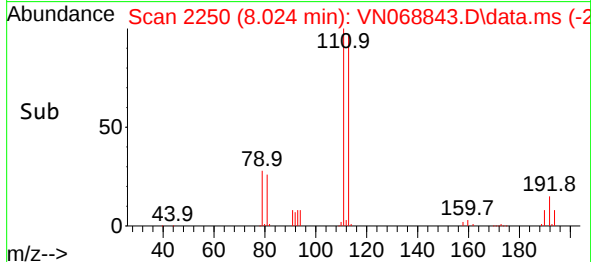
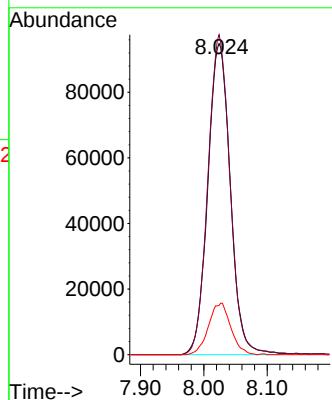
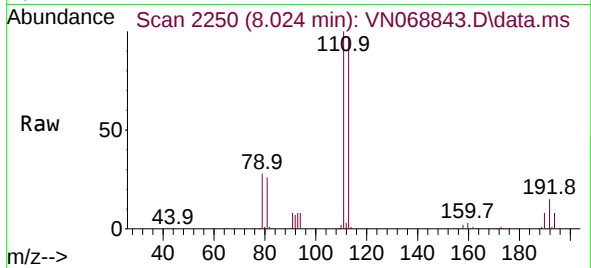




#35  
Dibromofluoromethane  
Concen: 44.685 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. -0.000 min  
Lab File: VN068843.D  
Acq: 7 Oct 2021 15:57

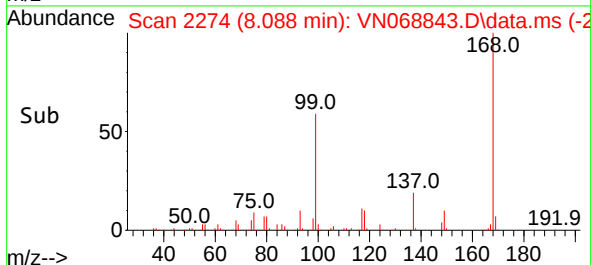
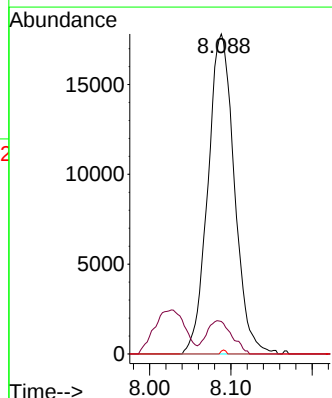
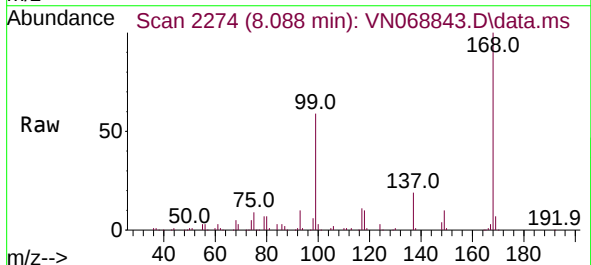
Instrument :  
MSVOA\_N  
ClientSampleId :  
GROWS-1

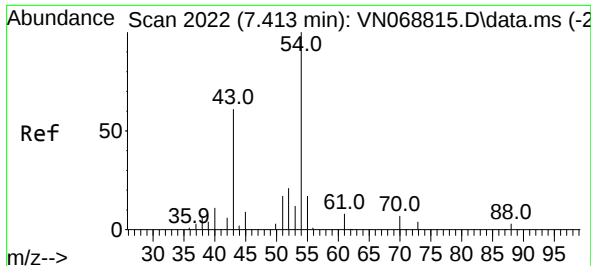
Tgt Ion:113 Resp: 234401  
Ion Ratio Lower Upper  
113 100  
111 101.1 83.8 125.8  
192 16.4 13.4 20.0



#36  
1,1-Dichloropropene  
Concen: 6.374 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.137 min  
Lab File: VN068843.D  
Acq: 7 Oct 2021 15:57

Tgt Ion: 75 Resp: 40239  
Ion Ratio Lower Upper  
75 100  
110 10.0 15.7 47.0#  
77 0.2 24.6 37.0#





#37

Ethyl Acetate

Concen: 1.360 ug/l

RT: 7.351 min Scan# 1999

Delta R.T. -0.062 min

Lab File: VN068843.D

Acq: 7 Oct 2021 15:57

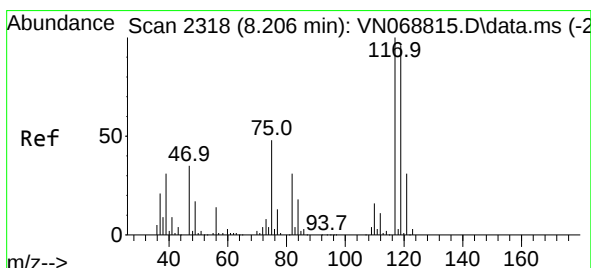
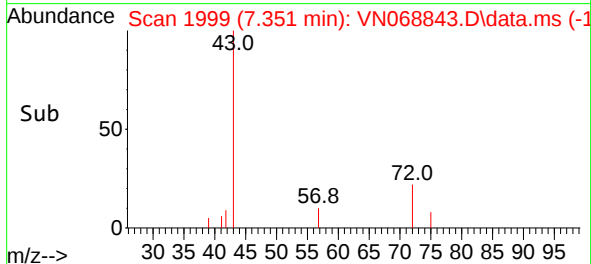
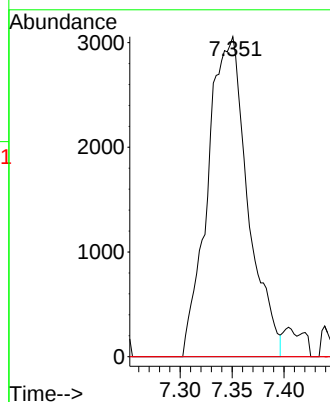
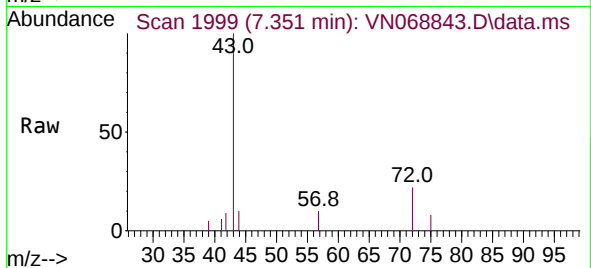
Instrument :

MSVOA\_N

ClientSampleId :

GROWS-1

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 8198  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 10.6  | 16.0# |
| 70       | 0.0   | 8.1   | 12.1# |



#38

Carbon Tetrachloride

Concen: 6.631 ug/l

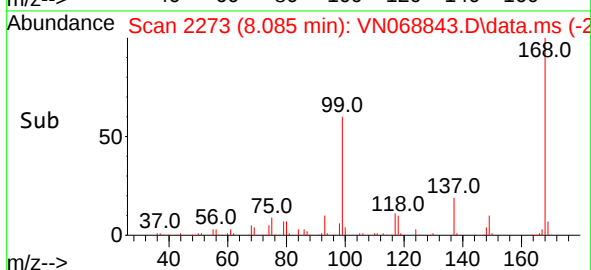
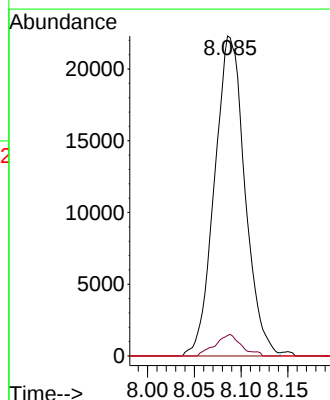
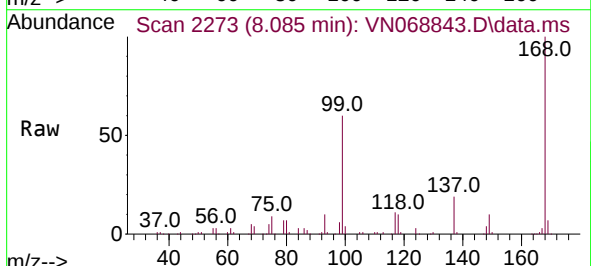
RT: 8.085 min Scan# 2273

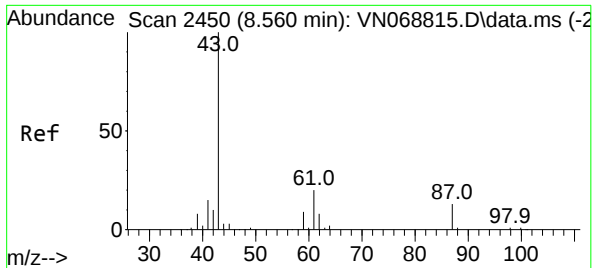
Delta R.T. -0.120 min

Lab File: VN068843.D

Acq: 7 Oct 2021 15:57

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 50418  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 6.4   | 75.4  | 113.2# |
| 121      | 0.0   | 23.5  | 35.3#  |

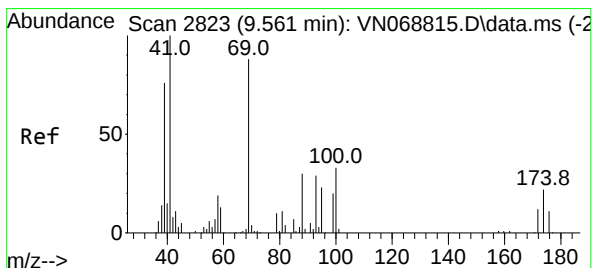
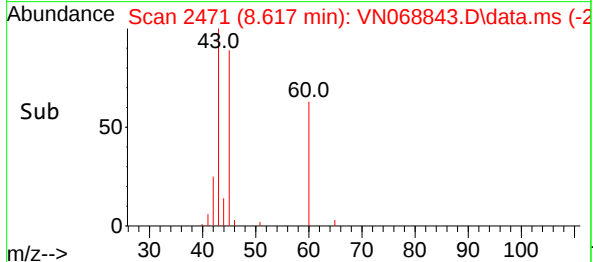
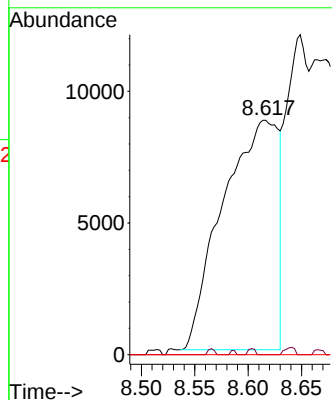
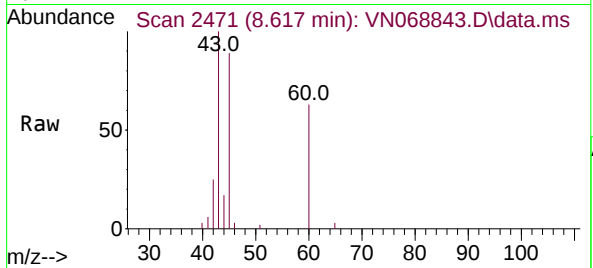




#43  
Isopropyl Acetate  
Concen: 2.875 ug/l  
RT: 8.617 min Scan# 2471  
Delta R.T. 0.057 min  
Lab File: VN068843.D  
Acq: 7 Oct 2021 15:57

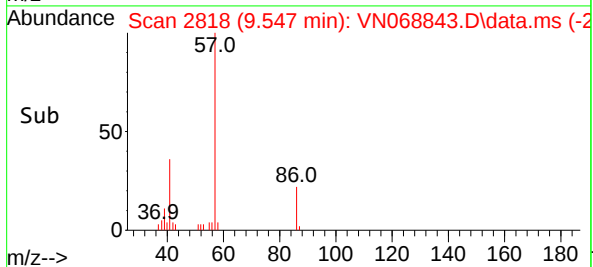
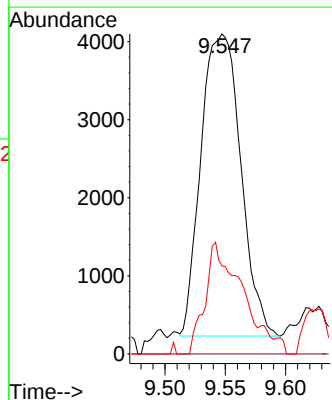
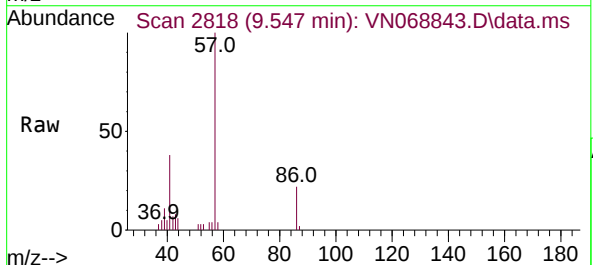
Instrument :  
MSVOA\_N  
ClientSampleId :  
GROWS-1

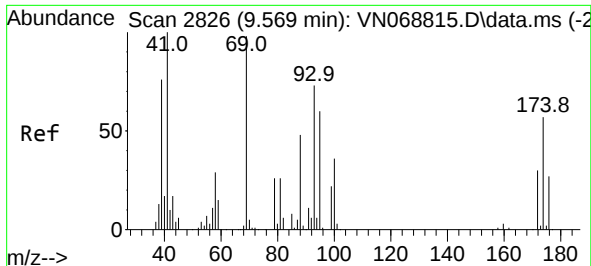
Tgt Ion: 43 Resp: 31502  
Ion Ratio Lower Upper  
43 100  
61 0.0 19.0 28.4#  
87 0.0 9.5 14.3#



#48  
Methyl methacrylate  
Concen: 1.896 ug/l  
RT: 9.547 min Scan# 2818  
Delta R.T. -0.014 min  
Lab File: VN068843.D  
Acq: 7 Oct 2021 15:57

Tgt Ion: 41 Resp: 8872  
Ion Ratio Lower Upper  
41 100  
69 0.0 64.6 96.8#  
39 34.8 53.3 79.9#

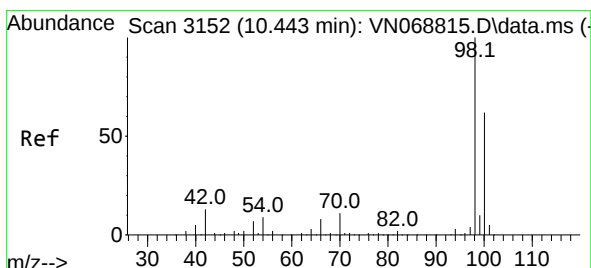
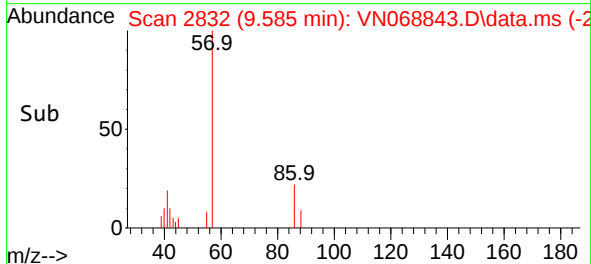
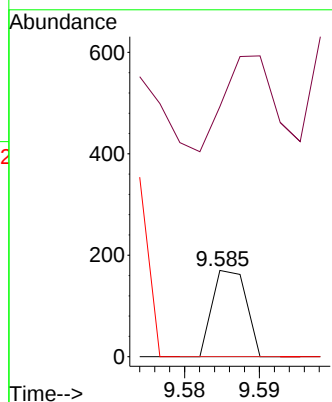
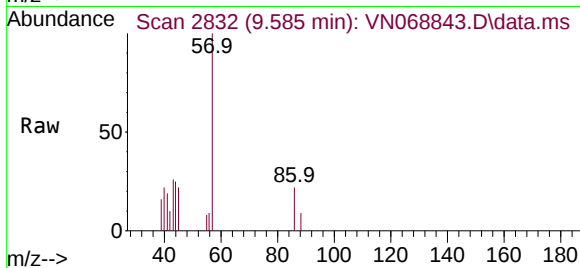




#49  
1,4-Dioxane  
Concen: 0.520 ug/l  
RT: 9.585 min Scan# 2832  
Delta R.T. 0.016 min  
Lab File: VN068843.D  
Acq: 7 Oct 2021 15:57

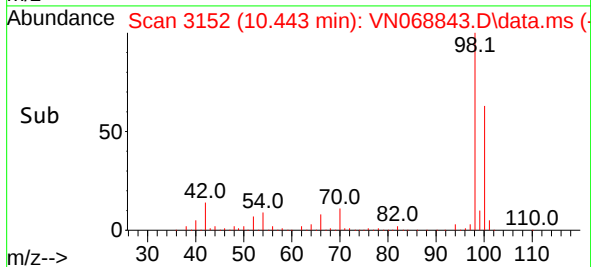
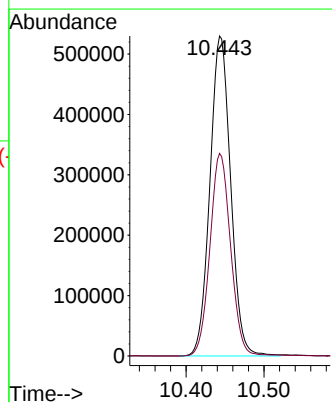
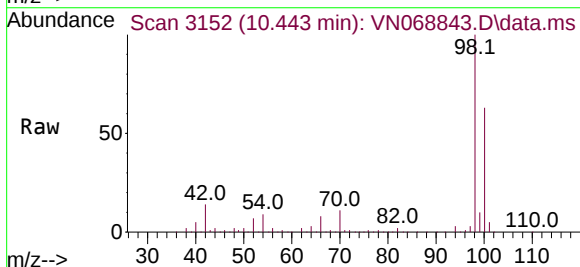
Instrument :  
MSVOA\_N  
ClientSampled :  
GROWS-1

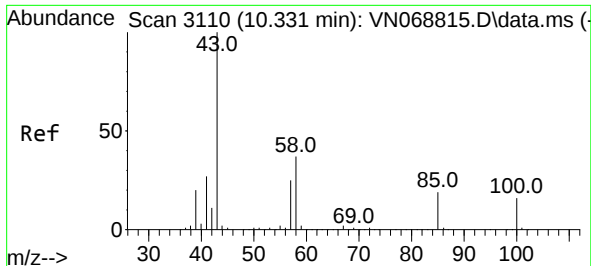
Tgt Ion: 88 Resp: 53  
Ion Ratio Lower Upper  
88 100  
43 0.0 28.8 43.2#  
58 690.6 60.4 90.6#



#50  
Toluene-d8  
Concen: 47.888 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. -0.000 min  
Lab File: VN068843.D  
Acq: 7 Oct 2021 15:57

Tgt Ion: 98 Resp: 979643  
Ion Ratio Lower Upper  
98 100  
100 63.0 51.7 77.5

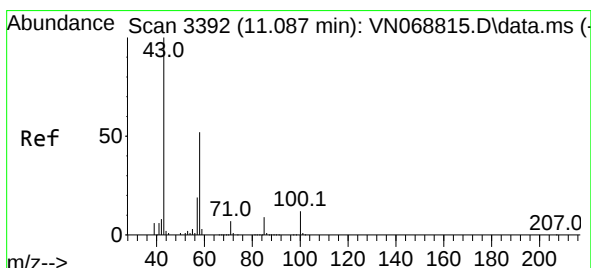
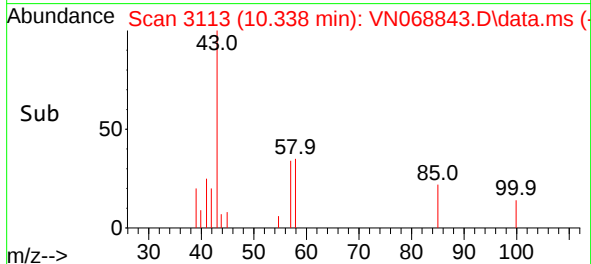
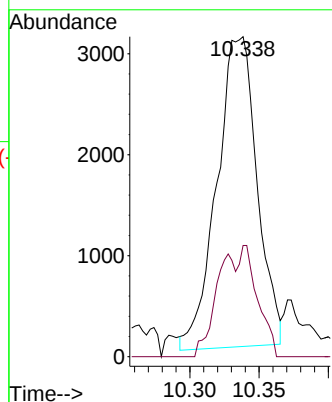
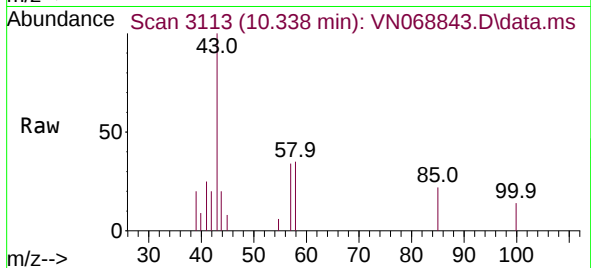




#51  
4-Methyl-2-Pentanone  
Concen: 0.889 ug/l  
RT: 10.338 min Scan# 3113  
Delta R.T. 0.007 min  
Lab File: VN068843.D  
Acq: 7 Oct 2021 15:57

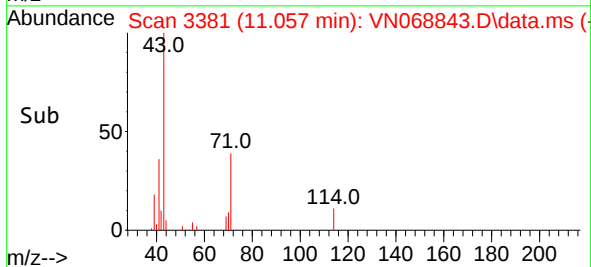
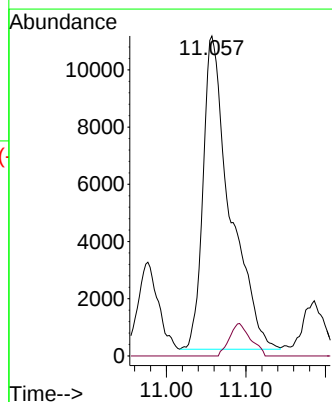
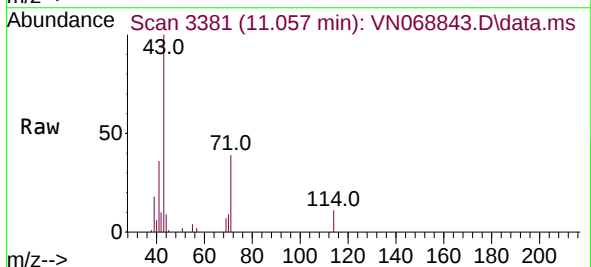
Instrument :  
MSVOA\_N  
ClientSampled :  
GROWS-1

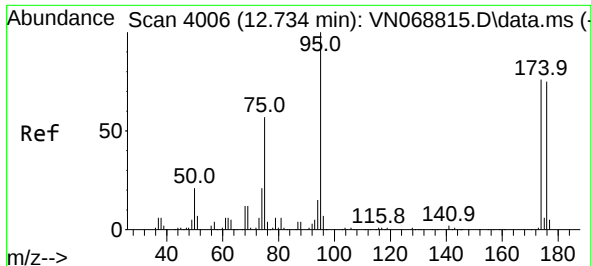
Tgt Ion: 43 Resp: 6203  
Ion Ratio Lower Upper  
43 100  
58 17.3 28.6 43.0#



#59  
2-Hexanone  
Concen: 5.145 ug/l  
RT: 11.057 min Scan# 3381  
Delta R.T. -0.030 min  
Lab File: VN068843.D  
Acq: 7 Oct 2021 15:57

Tgt Ion: 43 Resp: 25883  
Ion Ratio Lower Upper  
43 100  
58 0.0 24.7 74.1#

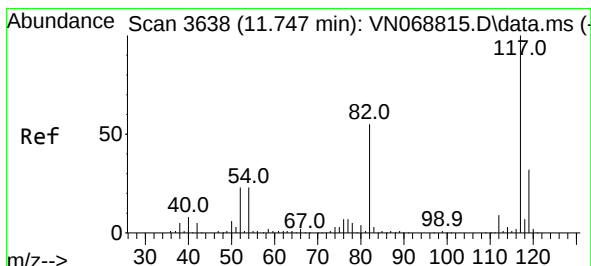
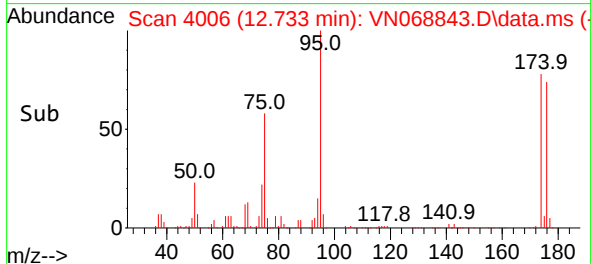
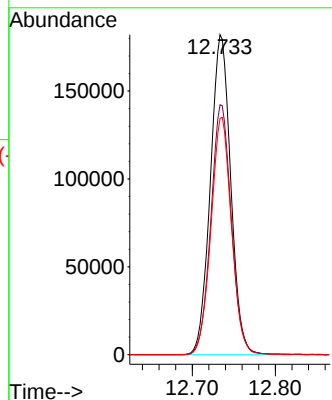
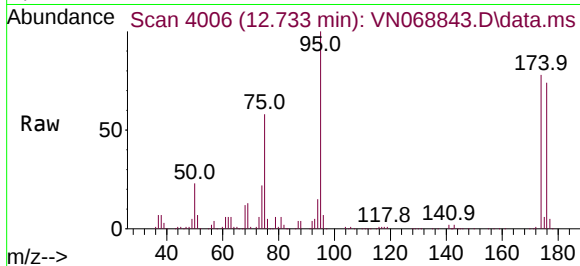




#62  
4-Bromofluorobenzene  
Concen: 40.979 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. -0.001 min  
Lab File: VN068843.D  
Acq: 7 Oct 2021 15:57

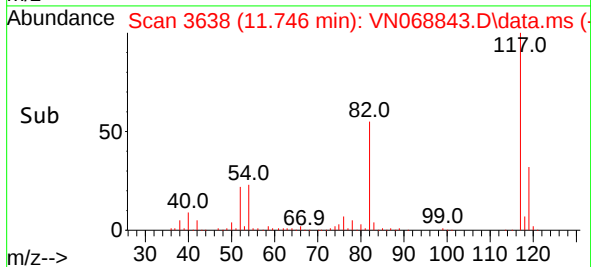
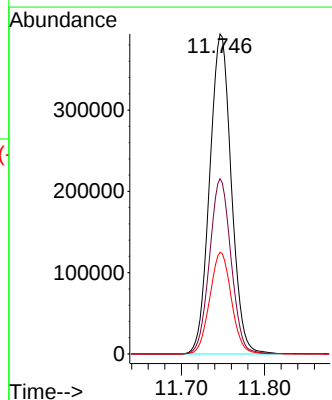
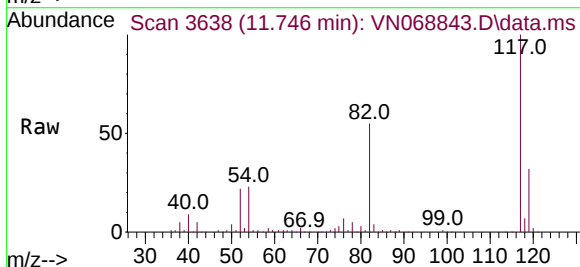
Instrument :  
MSVOA\_N  
ClientSampleId :  
GROWS-1

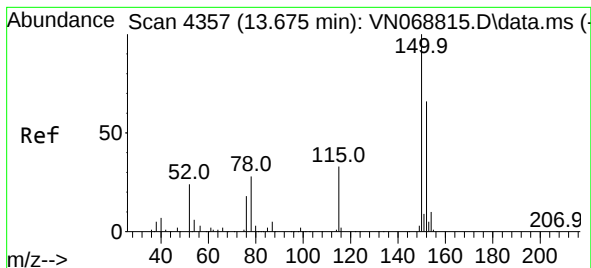
Tgt Ion: 95 Resp: 309431  
Ion Ratio Lower Upper  
95 100  
174 78.7 0.0 122.0  
176 74.6 0.0 117.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.746 min Scan# 3638  
Delta R.T. -0.001 min  
Lab File: VN068843.D  
Acq: 7 Oct 2021 15:57

Tgt Ion: 117 Resp: 712126  
Ion Ratio Lower Upper  
117 100  
82 54.7 53.1 79.7  
119 31.8 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.677 min Scan# 4358

Delta R.T. 0.002 min

Lab File: VN068843.D

Acq: 7 Oct 2021 15:57

Instrument :

MSVOA\_N

ClientSampleId :

GROWS-1

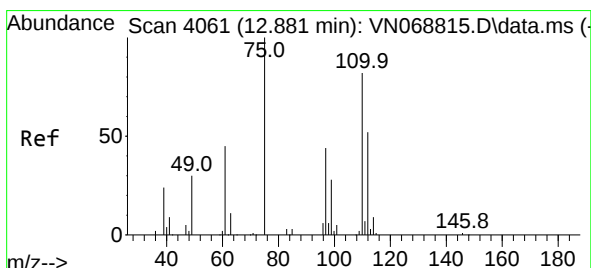
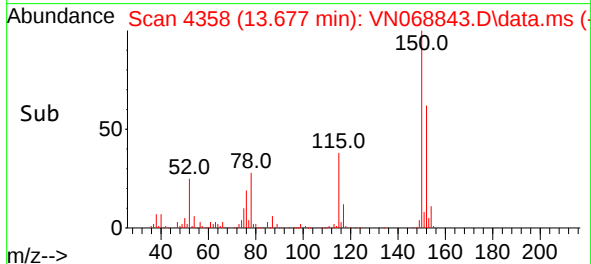
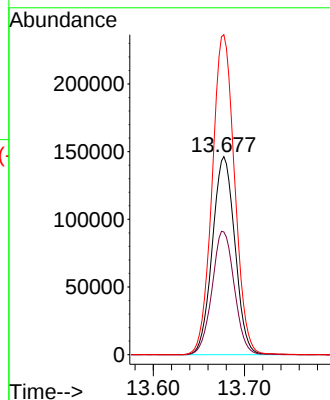
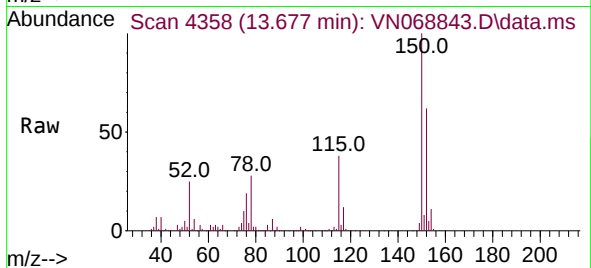
Tgt Ion:152 Resp: 251603

Ion Ratio Lower Upper

152 100

115 61.6 36.1 108.5

150 160.8 0.0 351.8



#76

1,2,3-Trichloropropane

Concen: 36.583 ug/l

RT: 12.733 min Scan# 4006

Delta R.T. -0.148 min

Lab File: VN068843.D

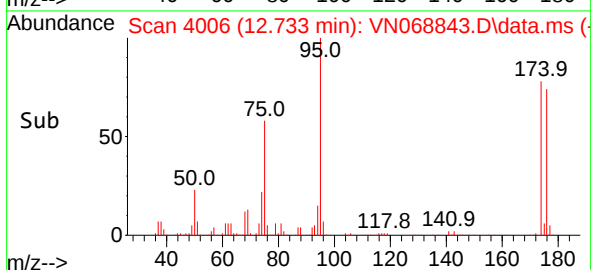
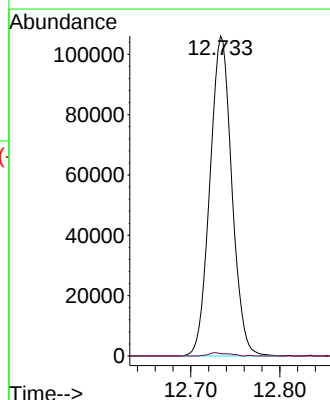
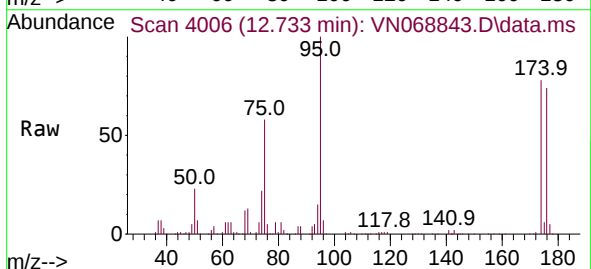
Acq: 7 Oct 2021 15:57

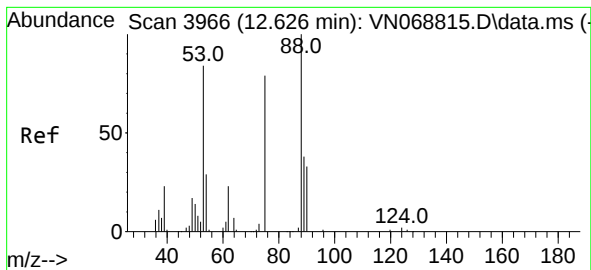
Tgt Ion: 75 Resp: 181439

Ion Ratio Lower Upper

75 100

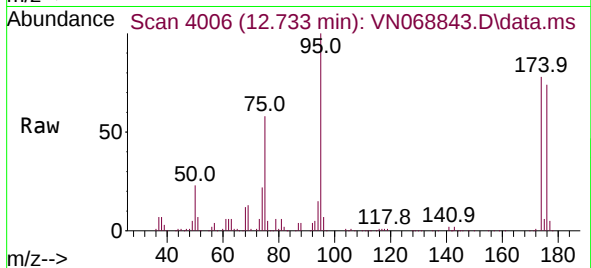
77 0.9 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 105.979 ug/l  
 RT: 12.733 min Scan# 4006  
 Delta R.T. 0.107 min  
 Lab File: VN068843.D  
 Acq: 7 Oct 2021 15:57

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 GROWS-1



Tgt Ion: 75 Resp: 181439  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 87.6 131.4#  
 89 0.0 37.8 56.8#

