

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101521\  
 Data File : VN068958.D  
 Acq On : 15 Oct 2021 18:53  
 Operator : JC/MD  
 Sample : M4153-02  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 18 02:17:26 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 13 05:44:40 2021  
 Response via : Initial Calibration

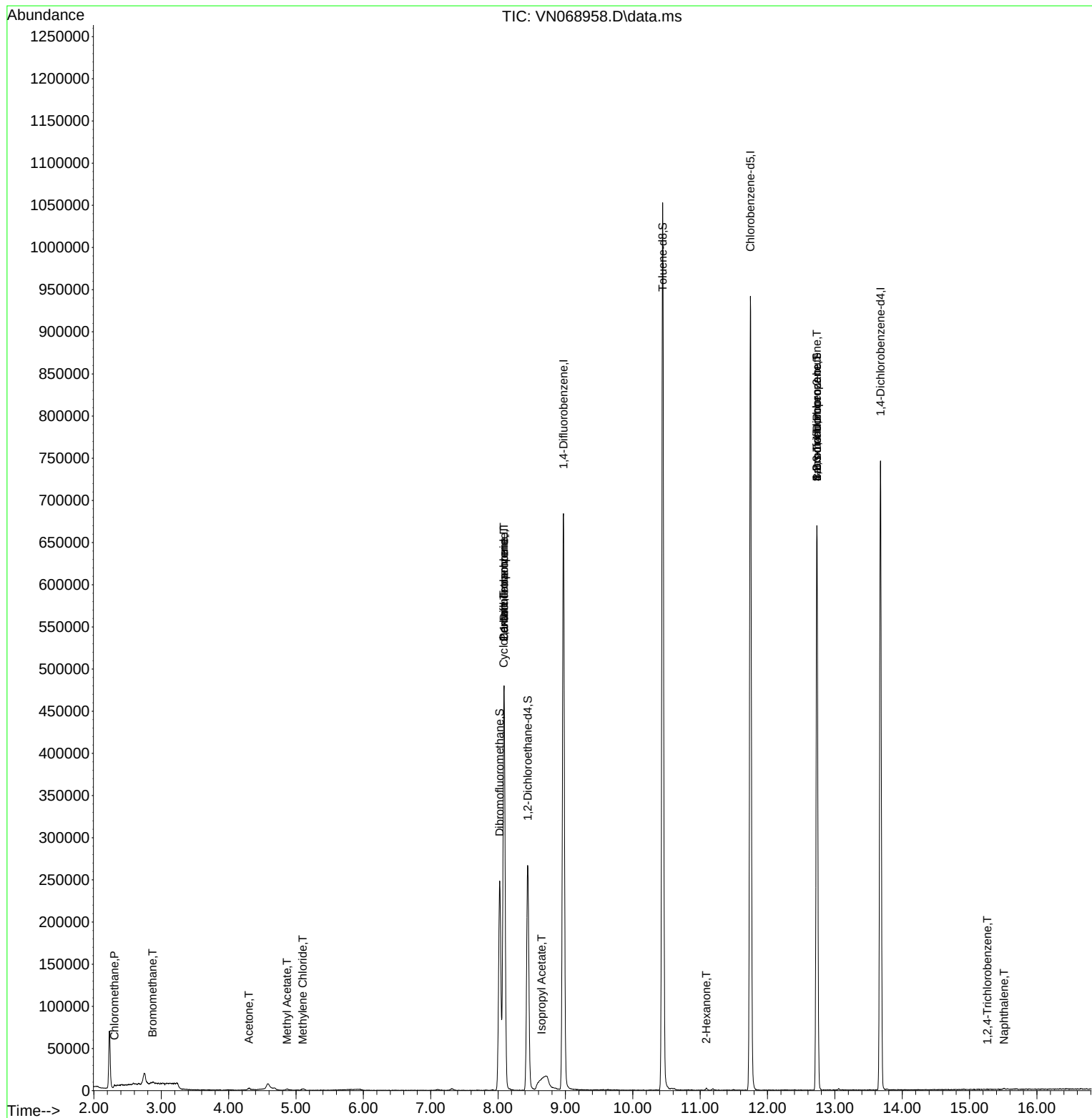
| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) Pentafluorobenzene         | 8.088          | 168  | 362428     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.971          | 114  | 611914     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.746         | 117  | 554978     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.677         | 152  | 199829     | 50.000   | ug/l   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.440          | 65   | 227461     | 47.601   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = | 95.200%  |        |          |
| 35) Dibromofluoromethane      | 8.024          | 113  | 182838     | 51.357   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = | 102.720% |        |          |
| 50) Toluene-d8                | 10.443         | 98   | 753809     | 52.918   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = | 105.840% |        |          |
| 62) 4-Bromofluorobenzene      | 12.733         | 95   | 247823     | 46.112   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = | 92.220%  |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          |        | Qvalue   |
| 3) Chloromethane              | 2.303          | 50   | 1616       | 0.365    | ug/l   | 98       |
| 5) Bromomethane               | 2.869          | 94   | 1110       | 0.448    | ug/l   | 93       |
| 16) Acetone                   | 4.299          | 43   | 1878       | 1.053    | ug/l   | 99       |
| 18) Methyl Acetate            | 4.867          | 43   | 1879       | 0.278    | ug/l # | 80       |
| 20) Methylene Chloride        | 5.098          | 84   | 943        | 0.230    | ug/l # | 63       |
| 31) Cyclohexane               | 8.083          | 56   | 8229       | 1.108    | ug/l # | 12       |
| 36) 1,1-Dichloropropene       | 8.088          | 75   | 29666      | 5.676    | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.088          | 117  | 36573      | 6.371    | ug/l # | 15       |
| 43) Isopropyl Acetate         | 8.646          | 43   | 18464      | 1.939    | ug/l # | 55       |
| 59) 2-Hexanone                | 11.089         | 43   | 920        | 0.232    | ug/l # | 52       |
| 71) Bromoform                 | 12.733         | 173  | 2126       | 0.646    | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.733         | 75   | 126773     | 29.816   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.733         | 75   | 126773     | 71.334   | ug/l # | 12       |
| 93) 1,2,4-Trichlorobenzene    | 15.263         | 180  | 77         | 2.623    | ug/l # | 75       |
| 95) Naphthalene               | 15.509         | 128  | 1555       | 3.967    | ug/l # | 69       |
| -----                         |                |      |            |          |        |          |

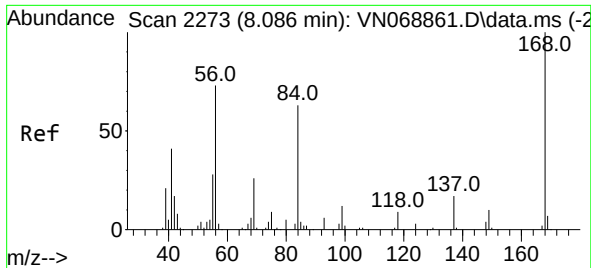
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101521\  
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Sample : M4153-02  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Oct 18 02:17:26 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 13 05:44:40 2021  
Response via : Initial Calibration

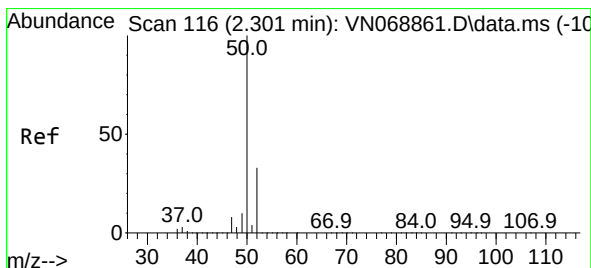
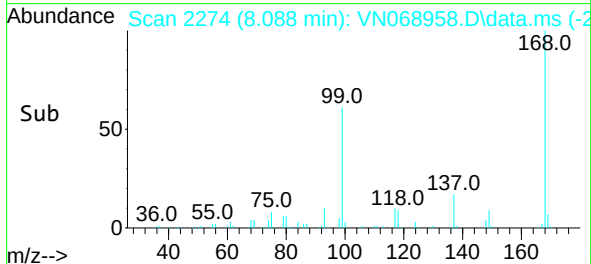
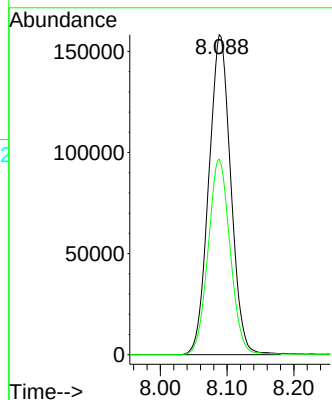
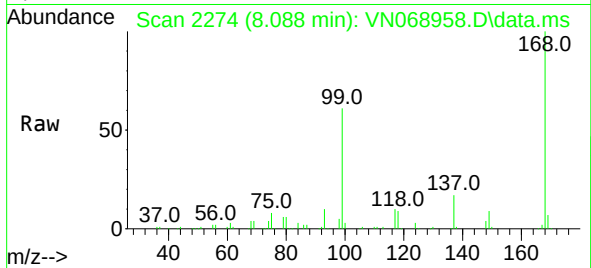




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. 0.002 min  
Lab File: VN068958.D  
Acq: 15 Oct 2021 18:53

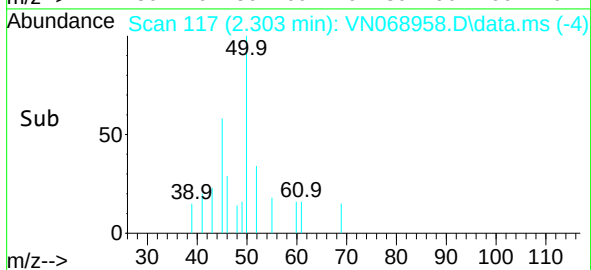
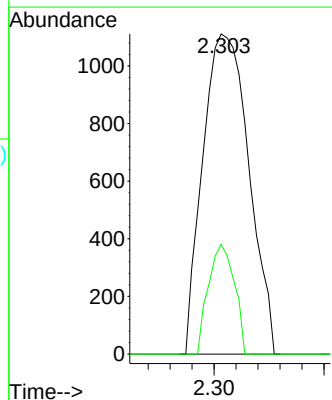
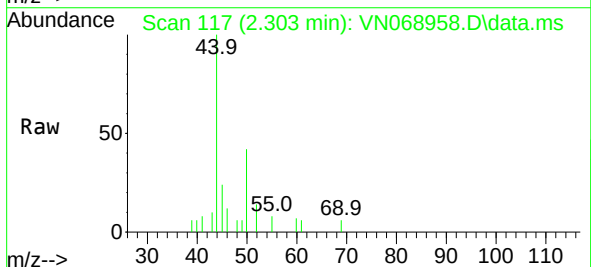
Instrument :  
MSVOA\_N  
ClientSampled :

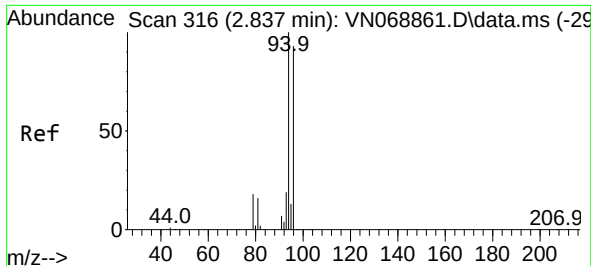
Tgt Ion:168 Resp: 362428  
Ion Ratio Lower Upper  
168 100  
99 61.1 48.9 73.3



#3  
Chloromethane  
Concen: 0.365 ug/l  
RT: 2.303 min Scan# 117  
Delta R.T. 0.003 min  
Lab File: VN068958.D  
Acq: 15 Oct 2021 18:53

Tgt Ion: 50 Resp: 1616  
Ion Ratio Lower Upper  
50 100  
52 34.3 26.3 39.5

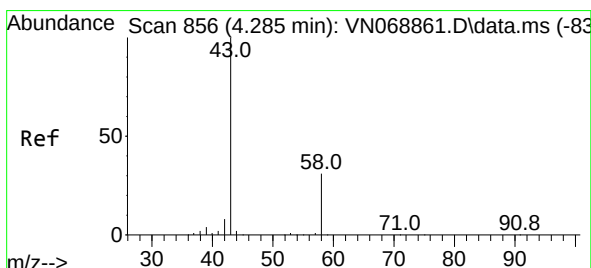
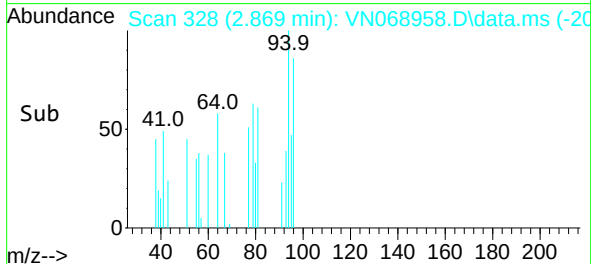
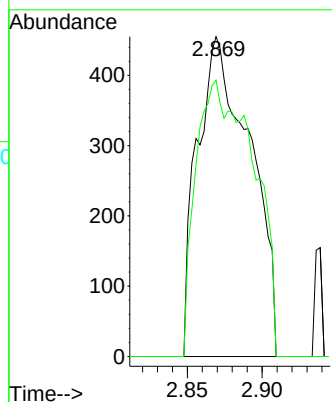
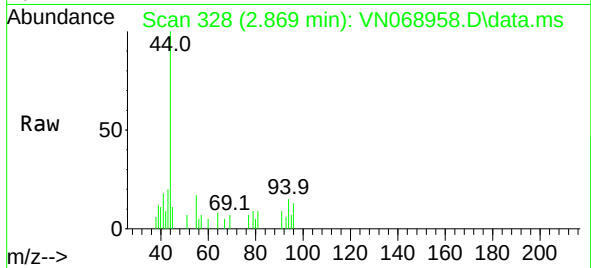




#5  
Bromomethane  
Concen: 0.448 ug/l  
RT: 2.869 min Scan# 328  
Delta R.T. 0.032 min  
Lab File: VN068958.D  
Acq: 15 Oct 2021 18:53

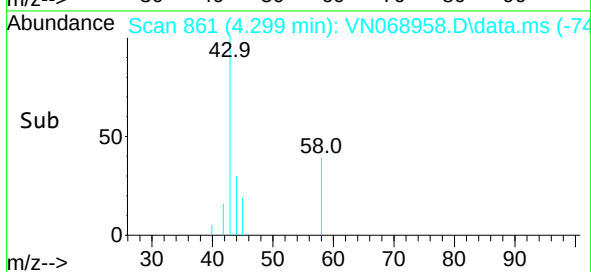
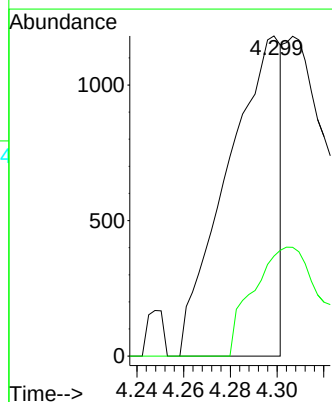
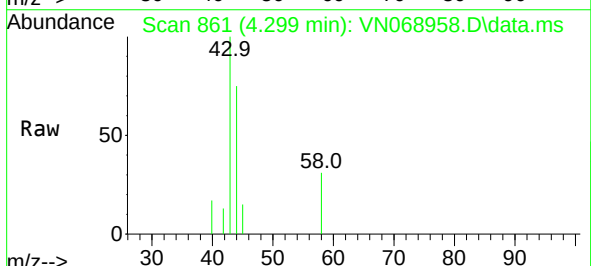
Instrument :  
MSVOA\_N  
ClientSampled :

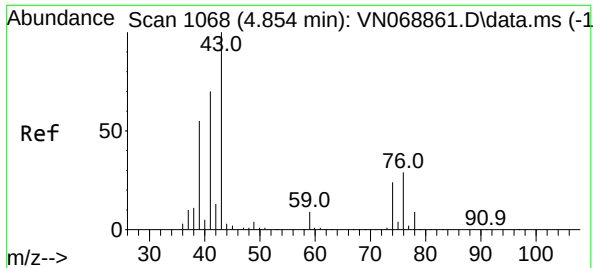
Tgt Ion: 94 Resp: 1110  
Ion Ratio Lower Upper  
94 100  
96 86.4 74.2 111.4



#16  
Acetone  
Concen: 1.053 ug/l  
RT: 4.299 min Scan# 861  
Delta R.T. 0.013 min  
Lab File: VN068958.D  
Acq: 15 Oct 2021 18:53

Tgt Ion: 43 Resp: 1878  
Ion Ratio Lower Upper  
43 100  
58 31.2 24.5 36.7

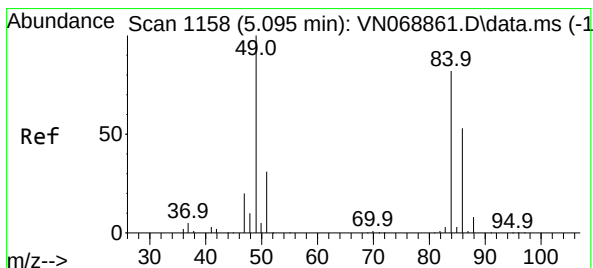
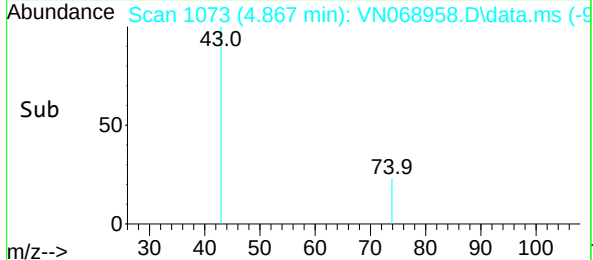
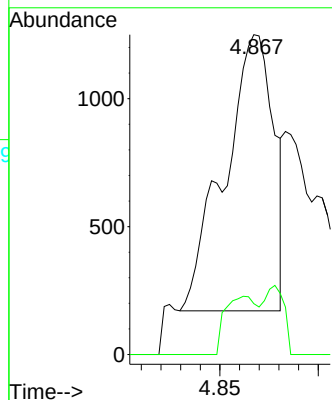
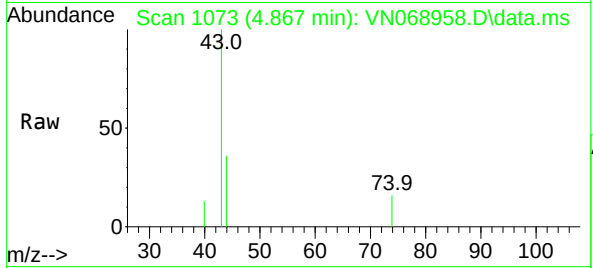




#18  
Methyl Acetate  
Concen: 0.278 ug/l  
RT: 4.867 min Scan# 1073  
Delta R.T. 0.013 min  
Lab File: VN068958.D  
Acq: 15 Oct 2021 18:53

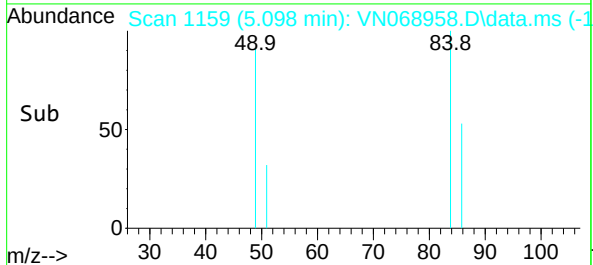
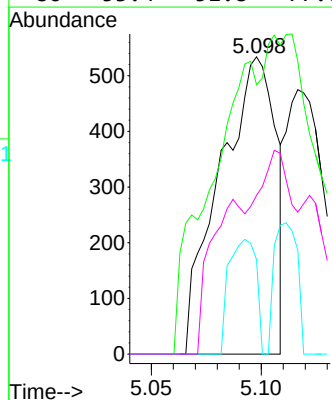
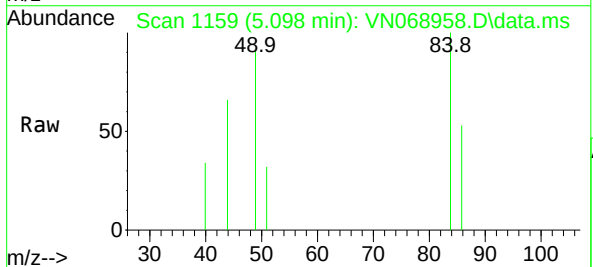
Instrument :  
MSVOA\_N  
ClientSampled :

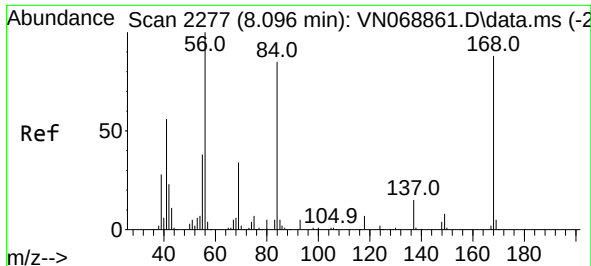
Tgt Ion: 43 Resp: 1879  
Ion Ratio Lower Upper  
43 100  
74 13.8 18.9 28.3#



#20  
Methylene Chloride  
Concen: 0.230 ug/l  
RT: 5.098 min Scan# 1159  
Delta R.T. 0.003 min  
Lab File: VN068958.D  
Acq: 15 Oct 2021 18:53

Tgt Ion: 84 Resp: 943  
Ion Ratio Lower Upper  
84 100  
49 56.7 97.6 146.4#  
51 31.8 30.3 45.5  
86 53.4 51.8 77.6

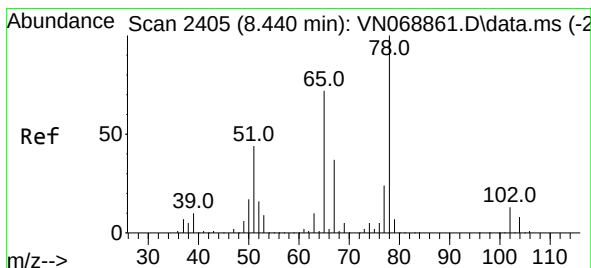
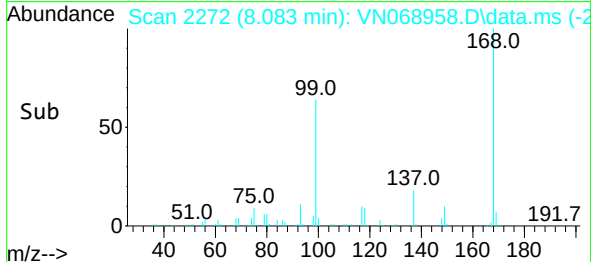
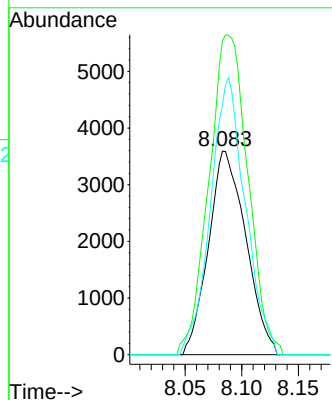
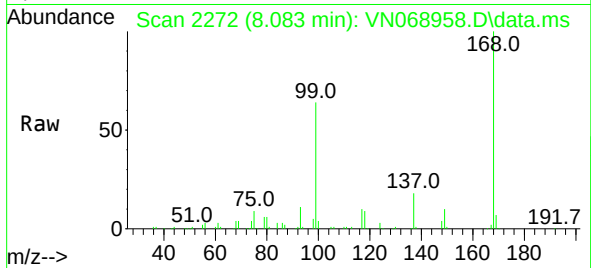




#31  
Cyclohexane  
Concen: 1.108 ug/l  
RT: 8.083 min Scan# 2272  
Delta R.T. -0.013 min  
Lab File: VN068958.D  
Acq: 15 Oct 2021 18:53

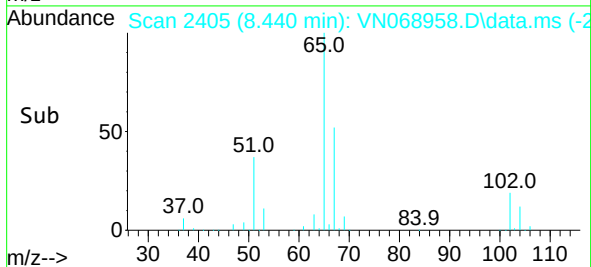
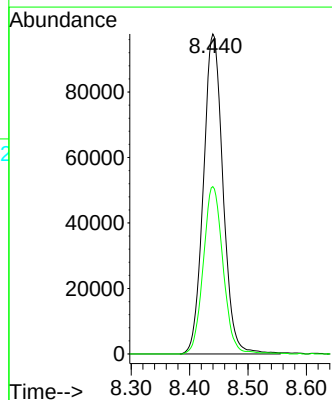
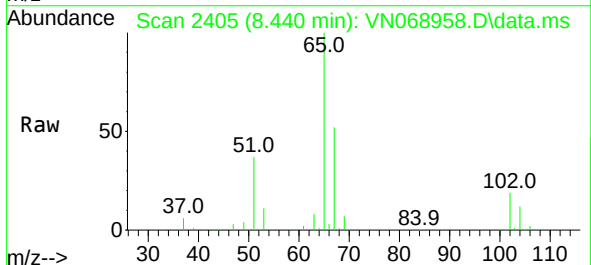
Instrument :  
MSVOA\_N  
ClientSampled :

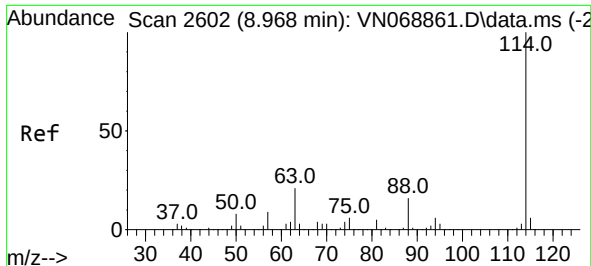
Tgt Ion: 56 Resp: 8229  
Ion Ratio Lower Upper  
56 100  
69 149.6 26.9 40.3#  
84 123.0 67.6 101.4#



#33  
1,2-Dichloroethane-d4  
Concen: 47.601 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. -0.000 min  
Lab File: VN068958.D  
Acq: 15 Oct 2021 18:53

Tgt Ion: 65 Resp: 227461  
Ion Ratio Lower Upper  
65 100  
67 52.6 0.0 103.8

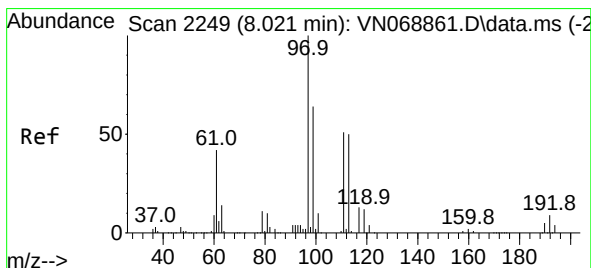
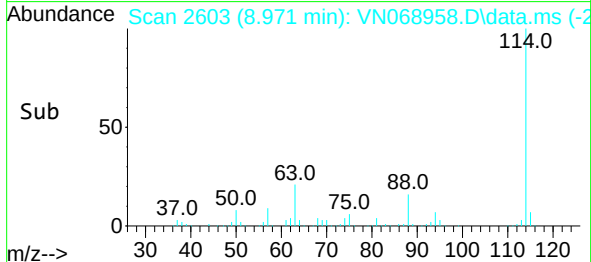
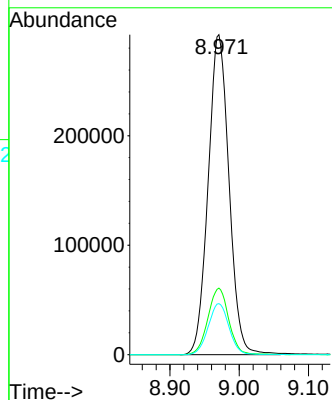
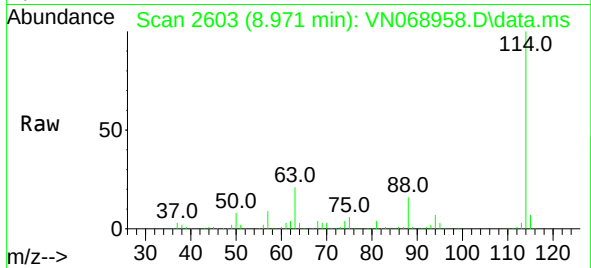




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.003 min  
Lab File: VN068958.D  
Acq: 15 Oct 2021 18:53

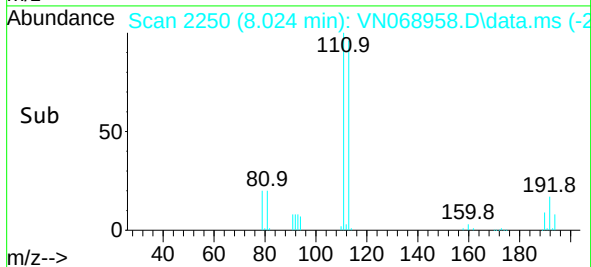
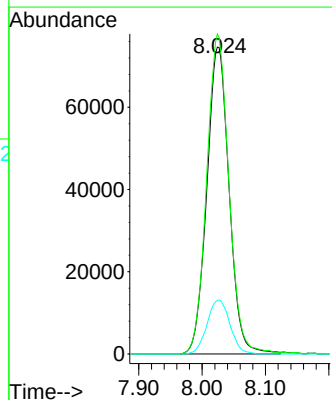
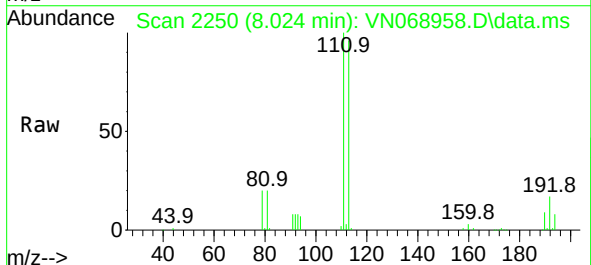
Instrument :  
MSVOA\_N  
ClientSampled :

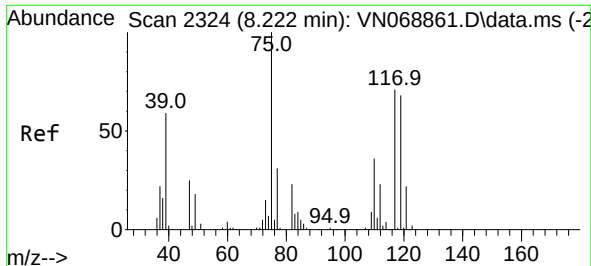
Tgt Ion:114 Resp: 611914  
Ion Ratio Lower Upper  
114 100  
63 20.8 0.0 42.6  
88 16.0 0.0 32.0



#35  
Dibromofluoromethane  
Concen: 51.357 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. 0.003 min  
Lab File: VN068958.D  
Acq: 15 Oct 2021 18:53

Tgt Ion:113 Resp: 182838  
Ion Ratio Lower Upper  
113 100  
111 103.9 83.2 124.8  
192 18.0 15.0 22.4





#36

1,1-Dichloropropene

Concen: 5.676 ug/l

RT: 8.088 min Scan# 2274

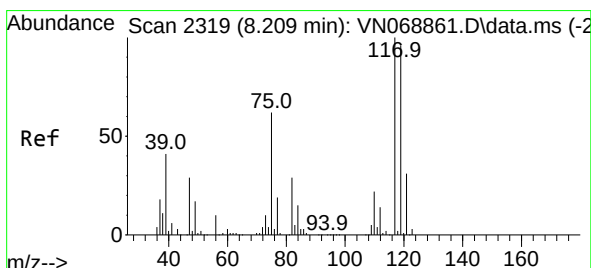
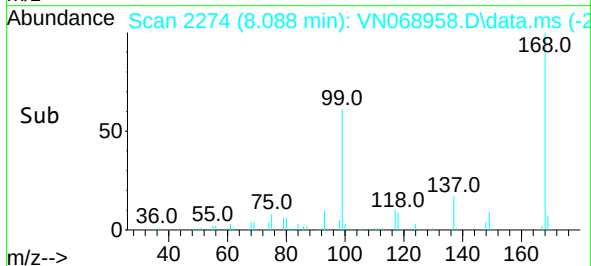
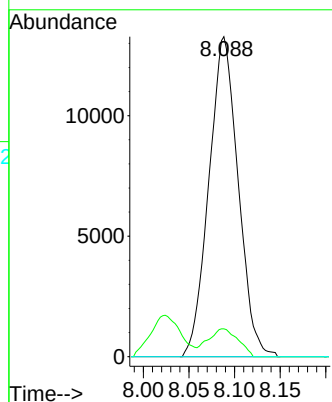
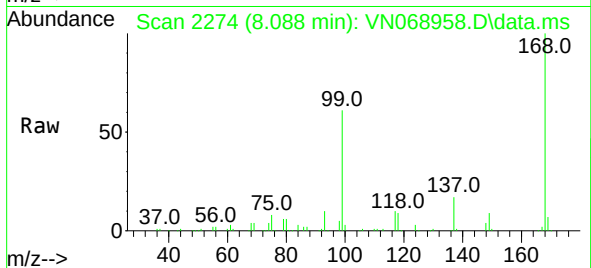
Delta R.T. -0.134 min

Lab File: VN068958.D

Acq: 15 Oct 2021 18:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 29666 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 9.0   | 17.9  | 53.8# |
| 77       | 0.0   | 24.7  | 37.1# |

Instrument :  
MSVOA\_N  
ClientSampled :



#38

Carbon Tetrachloride

Concen: 6.371 ug/l

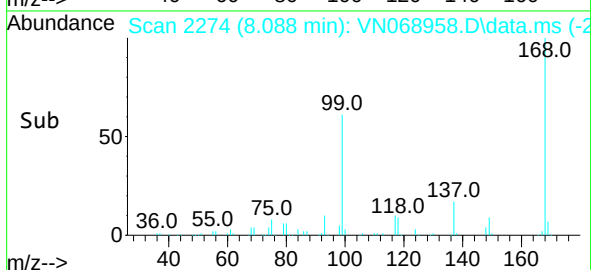
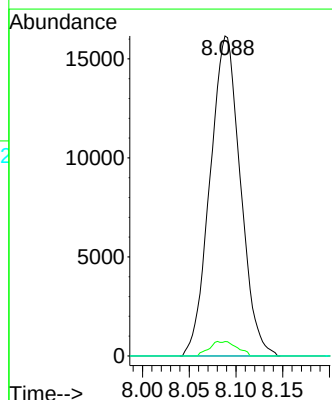
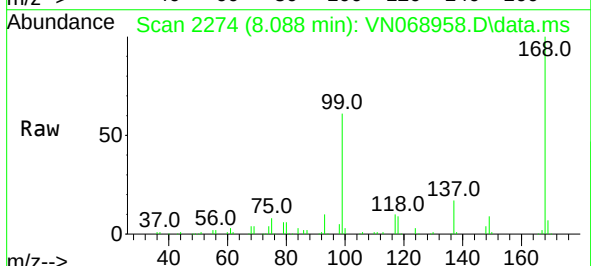
RT: 8.088 min Scan# 2274

Delta R.T. -0.121 min

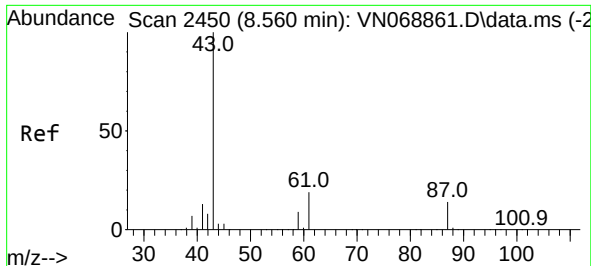
Lab File: VN068958.D

Acq: 15 Oct 2021 18:53

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 36573  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 4.5   | 76.9  | 115.3# |
| 121      | 0.0   | 24.6  | 37.0#  |



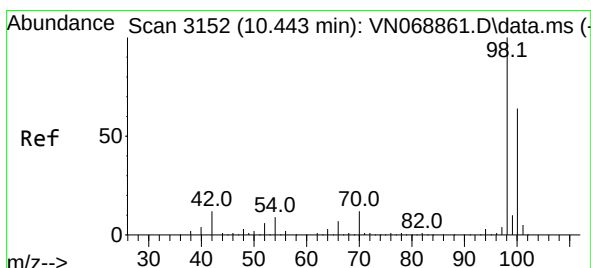
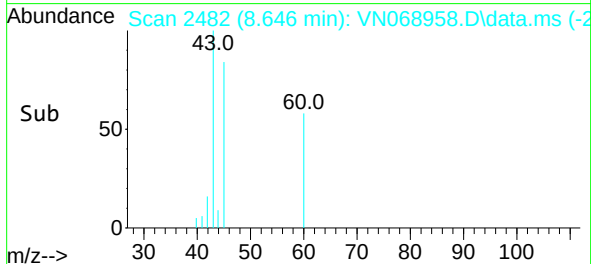
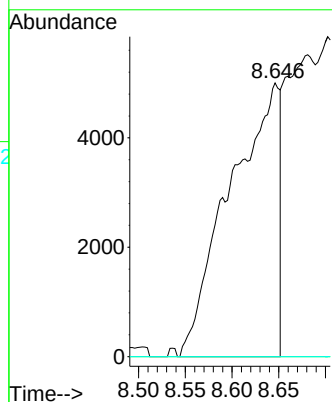
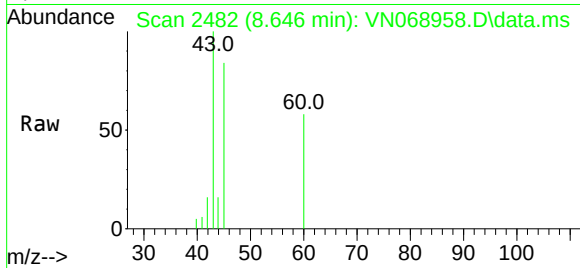




#43  
Isopropyl Acetate  
Concen: 1.939 ug/l  
RT: 8.646 min Scan# 2482  
Delta R.T. 0.086 min  
Lab File: VN068958.D  
Acq: 15 Oct 2021 18:53

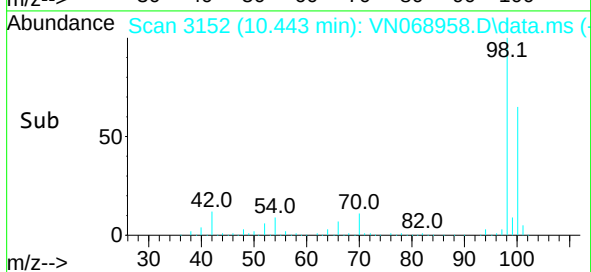
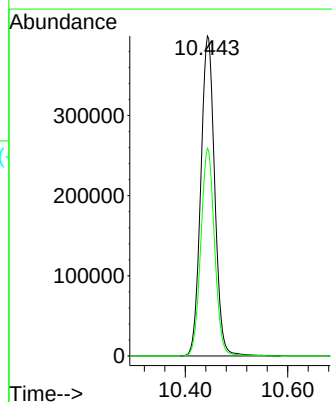
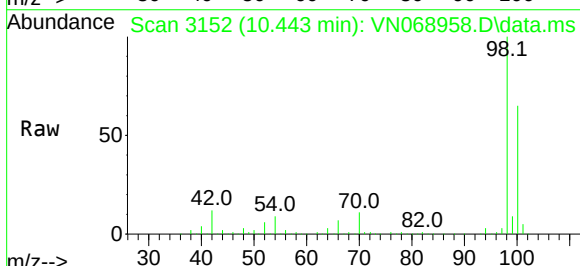
Instrument :  
MSVOA\_N  
ClientSampled :

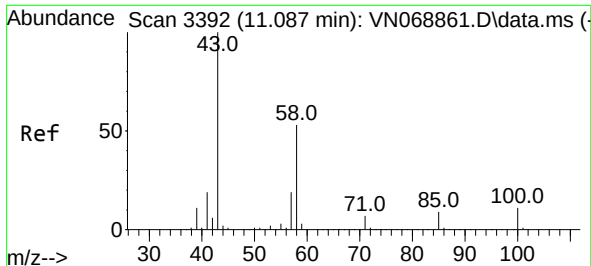
Tgt Ion: 43 Resp: 18464  
Ion Ratio Lower Upper  
43 100  
61 0.0 20.4 30.6#  
87 0.0 10.7 16.1#



#50  
Toluene-d8  
Concen: 52.918 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. -0.000 min  
Lab File: VN068958.D  
Acq: 15 Oct 2021 18:53

Tgt Ion: 98 Resp: 753809  
Ion Ratio Lower Upper  
98 100  
100 64.3 51.5 77.3

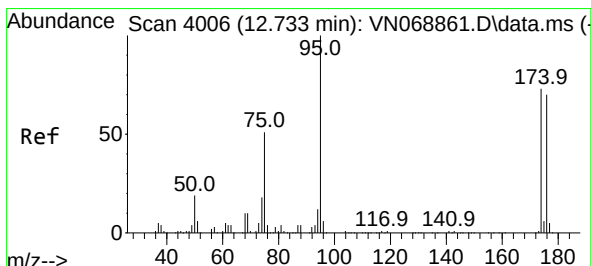
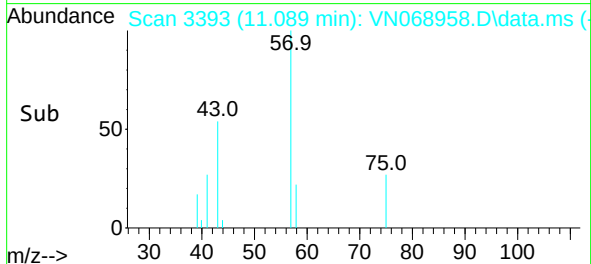
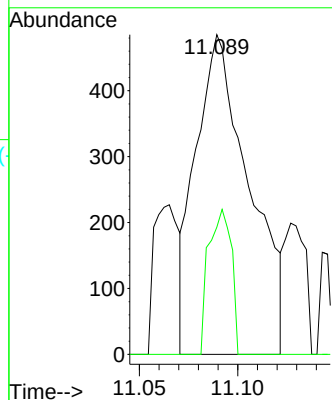
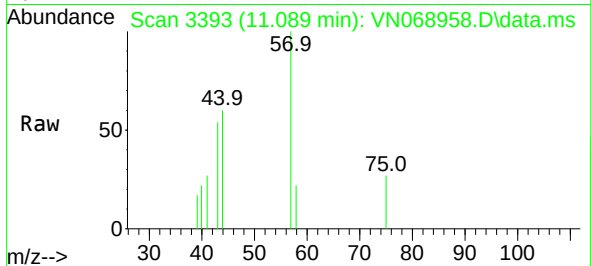




#59  
2-Hexanone  
Concen: 0.232 ug/l  
RT: 11.089 min Scan# 3393  
Delta R.T. 0.003 min  
Lab File: VN068958.D  
Acq: 15 Oct 2021 18:53

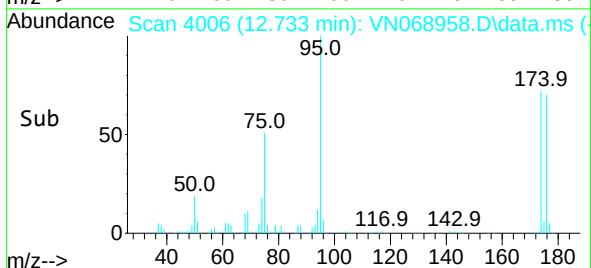
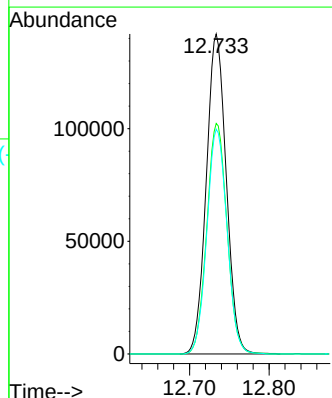
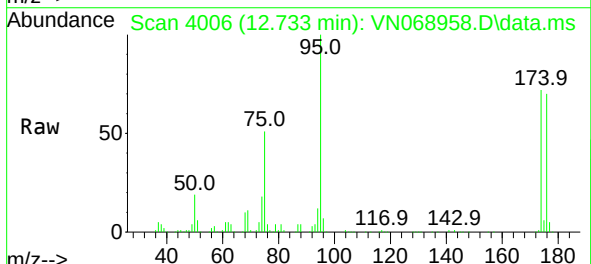
Instrument :  
MSVOA\_N  
ClientSampled :

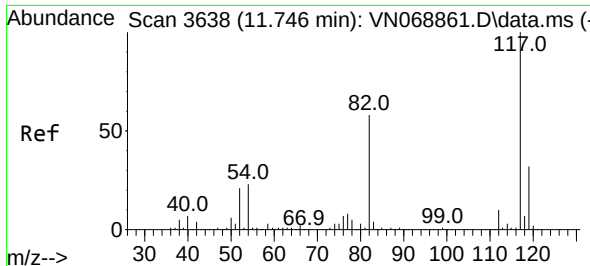
Tgt Ion: 43 Resp: 920  
Ion Ratio Lower Upper  
43 100  
58 19.2 26.9 80.7#



#62  
4-Bromofluorobenzene  
Concen: 46.112 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. -0.000 min  
Lab File: VN068958.D  
Acq: 15 Oct 2021 18:53

Tgt Ion: 95 Resp: 247823  
Ion Ratio Lower Upper  
95 100  
174 72.8 0.0 144.8  
176 70.7 0.0 140.0

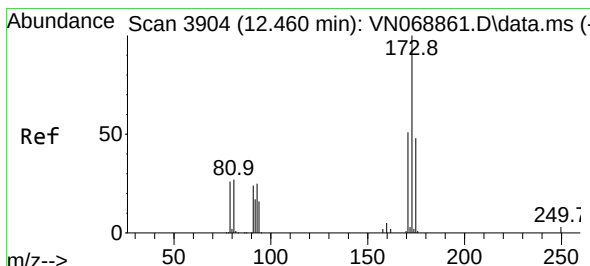
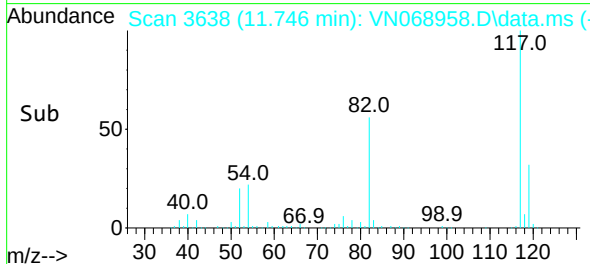
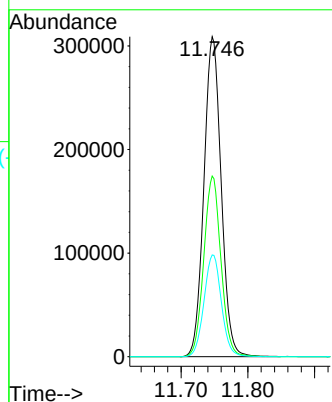
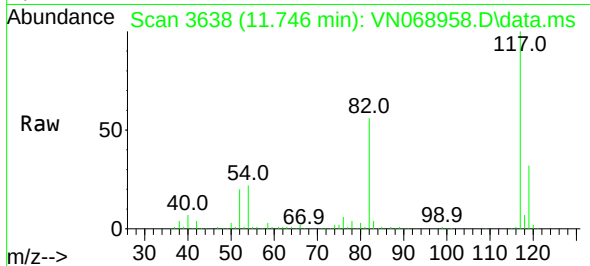




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.746 min Scan# 3638  
Delta R.T. -0.000 min  
Lab File: VN068958.D  
Acq: 15 Oct 2021 18:53

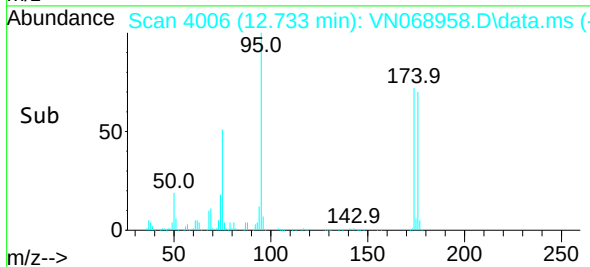
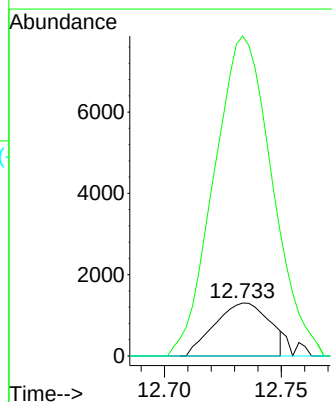
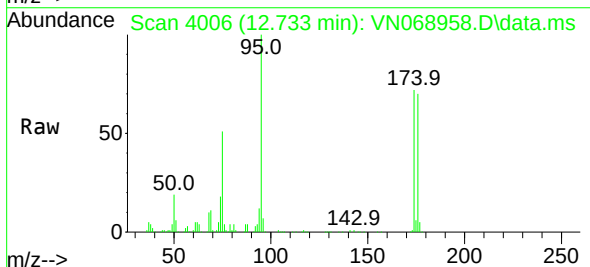
Instrument :  
MSVOA\_N  
ClientSampled :

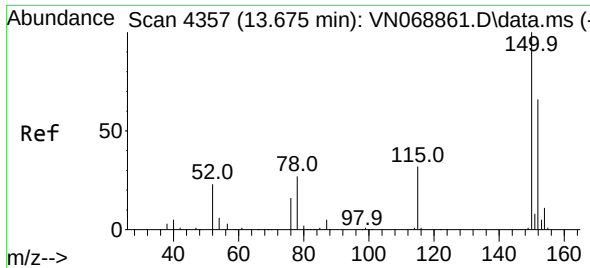
Tgt Ion:117 Resp: 554978  
Ion Ratio Lower Upper  
117 100  
82 56.5 46.4 69.6  
119 31.8 26.0 39.0



#71  
Bromoform  
Concen: 0.646 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.274 min  
Lab File: VN068958.D  
Acq: 15 Oct 2021 18:53

Tgt Ion:173 Resp: 2126  
Ion Ratio Lower Upper  
173 100  
175 593.0 23.8 71.5#  
254 0.0 0.0 0.0

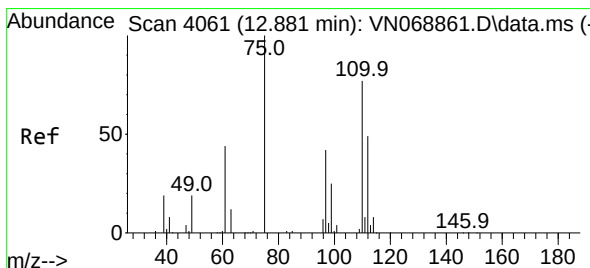
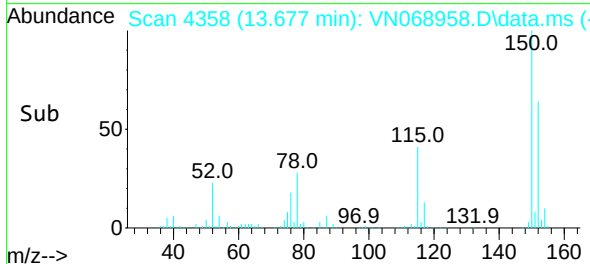
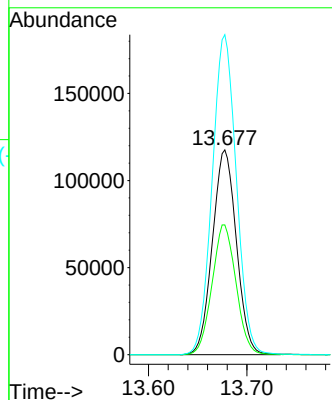
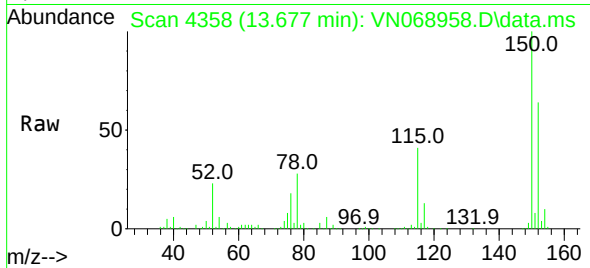




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.677 min Scan# 4358  
 Delta R.T. 0.003 min  
 Lab File: VN068958.D  
 Acq: 15 Oct 2021 18:53

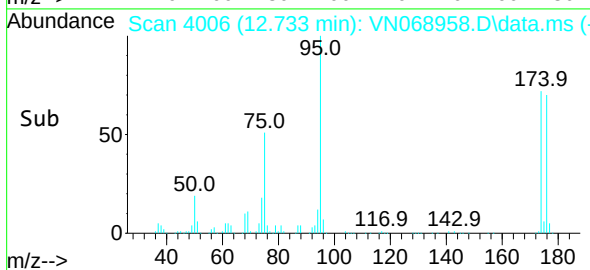
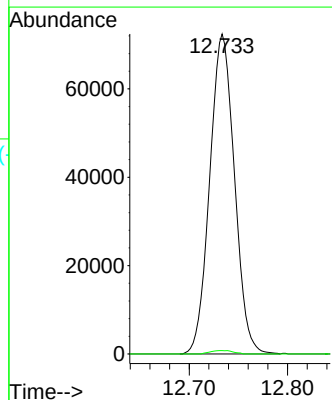
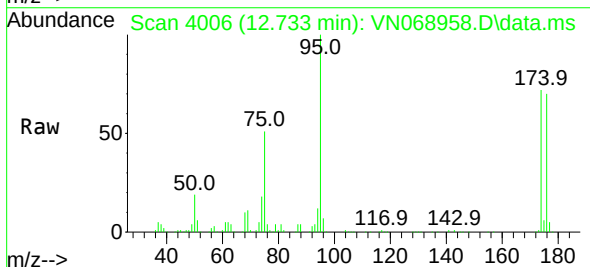
Instrument :  
 MSVOA\_N  
 ClientSampled :

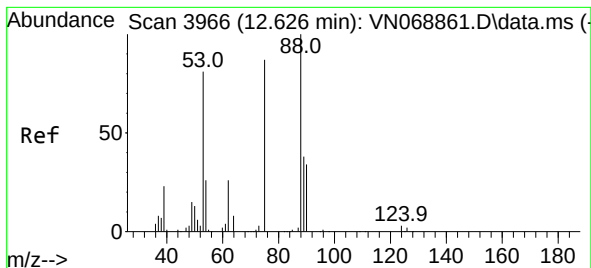
Tgt Ion:152 Resp: 199829  
 Ion Ratio Lower Upper  
 152 100  
 115 63.2 31.4 94.3  
 150 157.2 0.0 351.0



#76  
 1,2,3-Trichloropropane  
 Concen: 29.816 ug/l  
 RT: 12.733 min Scan# 4006  
 Delta R.T. -0.148 min  
 Lab File: VN068958.D  
 Acq: 15 Oct 2021 18:53

Tgt Ion: 75 Resp: 126773  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 96.2 288.4#

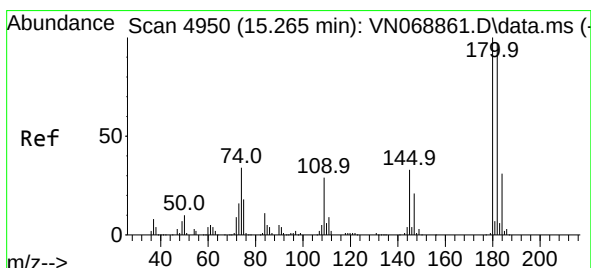
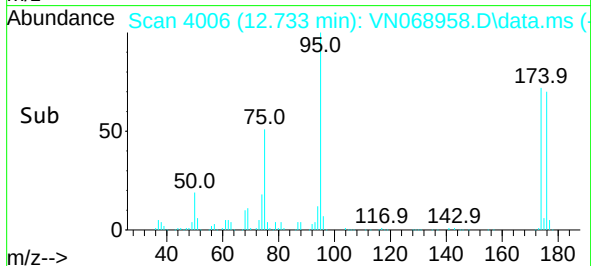
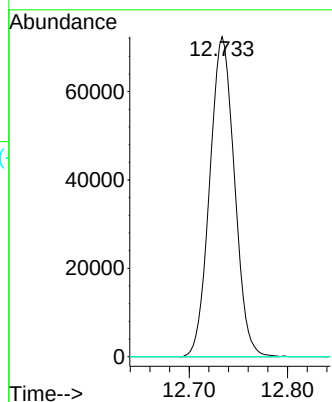
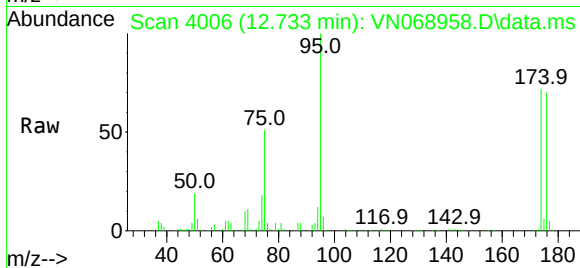




#81  
trans-1,4-Dichloro-2-butene  
Concen: 71.334 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.107 min  
Lab File: VN068958.D  
Acq: 15 Oct 2021 18:53

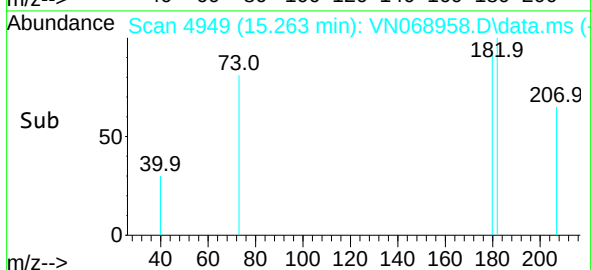
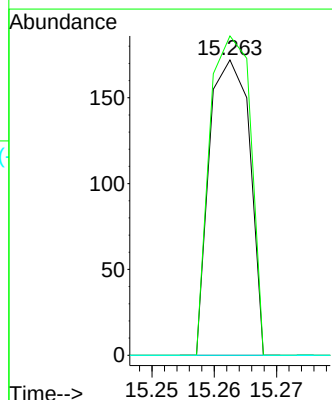
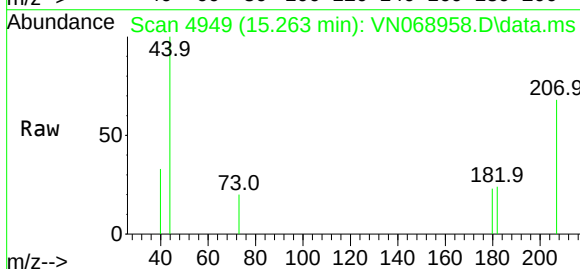
Instrument :  
MSVOA\_N  
ClientSampled :

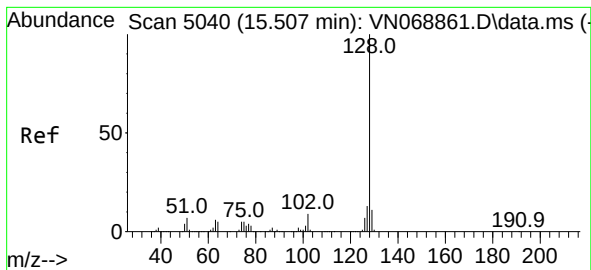
Tgt Ion: 75 Resp: 126773  
Ion Ratio Lower Upper  
75 100  
53 0.0 75.4 113.2#  
89 0.0 36.9 55.3#



#93  
1,2,4-Trichlorobenzene  
Concen: 2.623 ug/l  
RT: 15.263 min Scan# 4949  
Delta R.T. -0.002 min  
Lab File: VN068958.D  
Acq: 15 Oct 2021 18:53

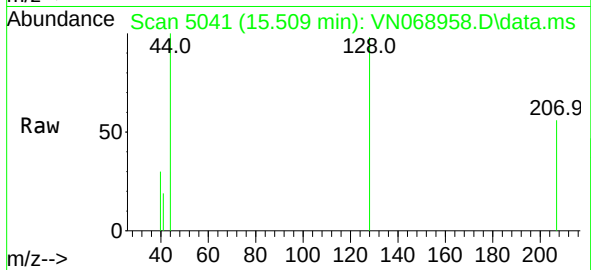
Tgt Ion:180 Resp: 77  
Ion Ratio Lower Upper  
180 100  
182 109.1 47.9 143.7  
145 0.0 16.4 49.2#





#95  
Naphthalene  
Concen: 3.967 ug/l  
RT: 15.509 min Scan# 5041  
Delta R.T. 0.002 min  
Lab File: VN068958.D  
Acq: 15 Oct 2021 18:53

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion:128 Resp: 1555  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.5 15.7#  
129 0.0 8.9 13.3#

