

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN072321\  
 Data File : VN067879.D  
 Acq On : 23 Jul 2021 14:51  
 Operator : JC/MD  
 Sample : M3160-04  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jul 24 01:41:59 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 07 16:18:53 2021  
 Response via : Initial Calibration

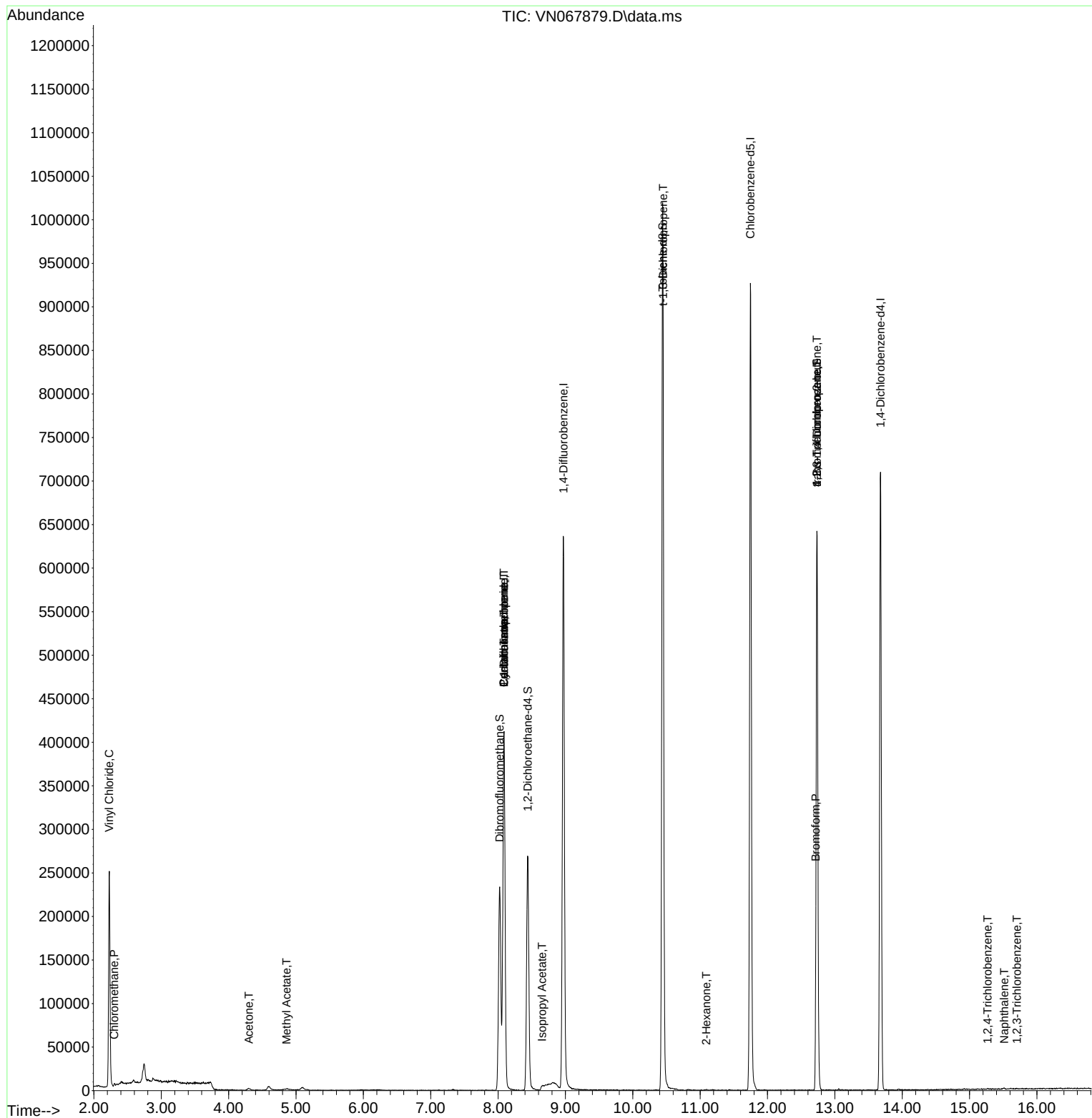
| Compound                      | R.T. QIon |                | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|-----------|----------------|----------|------------|--------|----------|
| Internal Standards            |           |                |          |            |        |          |
| 1) Pentafluorobenzene         | 8.088     | 168            | 291013   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.971     | 114            | 551983   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.746    | 117            | 530048   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.677    | 152            | 182730   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |           |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.440     | 65             | 230646   | 52.442     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 61 - 141 | Recovery | = 104.880% |        |          |
| 35) Dibromofluoromethane      | 8.024     | 113            | 171305   | 51.367     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 69 - 133 | Recovery | = 102.740% |        |          |
| 50) Toluene-d8                | 10.443    | 98             | 710308   | 50.884     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 65 - 126 | Recovery | = 101.760% |        |          |
| 62) 4-Bromofluorobenzene      | 12.733    | 95             | 227216   | 46.077     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 58 - 135 | Recovery | = 92.160%  |        |          |
| Target Compounds              |           |                |          |            |        | Qvalue   |
| 3) Chloromethane              | 2.301     | 50             | 1475     | 0.376      | ug/l # | 83       |
| 4) Vinyl Chloride             | 2.225     | 62             | 3439     | 0.582      | ug/l # | 16       |
| 5) Bromomethane               | 2.834     | 94             | 51       | Below Cal  | #      | 4        |
| 6) Chloroethane               | 3.009     | 64             | 103      | Below Cal  | #      | 44       |
| 13) Acrolein                  | 4.038     | 56             | 111      | Below Cal  | #      | 42       |
| 16) Acetone                   | 4.299     | 43             | 2954     | 2.135      | ug/l # | 84       |
| 18) Methyl Acetate            | 4.856     | 43             | 1095     | 0.282      | ug/l # | 80       |
| 20) Methylene Chloride        | 5.090     | 84             | 497      | Below Cal  | #      | 75       |
| 31) Cyclohexane               | 8.088     | 56             | 7482     | 1.213      | ug/l # | 36       |
| 36) 1,1-Dichloropropene       | 8.088     | 75             | 26526    | 5.173      | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 8.088     | 117            | 32454    | 6.417      | ug/l # | 17       |
| 43) Isopropyl Acetate         | 8.654     | 43             | 2980     | 0.341      | ug/l # | 58       |
| 53) t-1,3-Dichloropropene     | 10.451    | 75             | 86       | 1.757      | ug/l # | 40       |
| 59) 2-Hexanone                | 11.092    | 43             | 867      | 0.231      | ug/l # | 52       |
| 71) Bromoform                 | 12.717    | 173            | 230      | 3.239      | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.733    | 75             | 128090   | 34.325     | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.733    | 75             | 128090   | 110.667    | ug/l # | 6        |
| 93) 1,2,4-Trichlorobenzene    | 15.268    | 180            | 207      | 2.739      | ug/l # | 12       |
| 95) Naphthalene               | 15.515    | 128            | 1764     | 3.198      | ug/l # | 69       |
| 96) 1,2,3-Trichlorobenzene    | 15.702    | 180            | 240      | 2.710      | ug/l # | 48       |

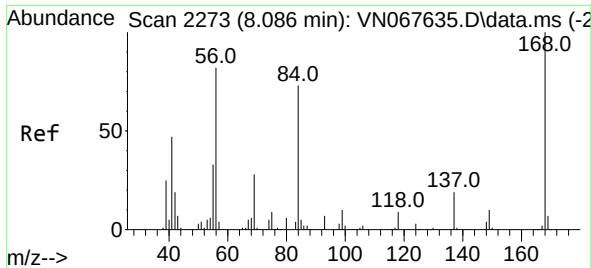
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN072321\  
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Sample : M3160-04  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Jul 24 01:41:59 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070721W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jul 07 16:18:53 2021  
Response via : Initial Calibration

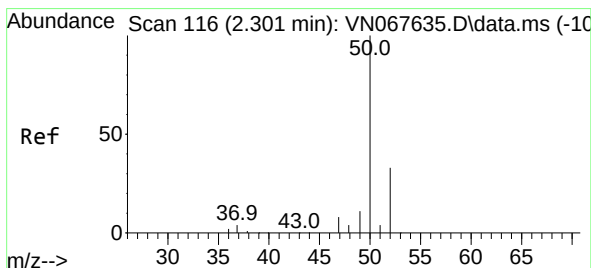
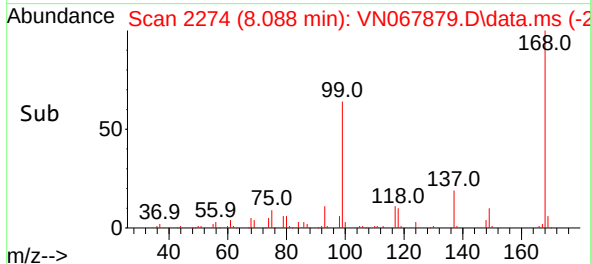
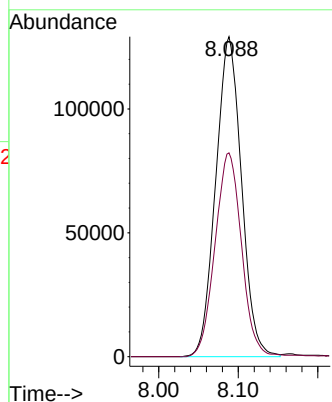
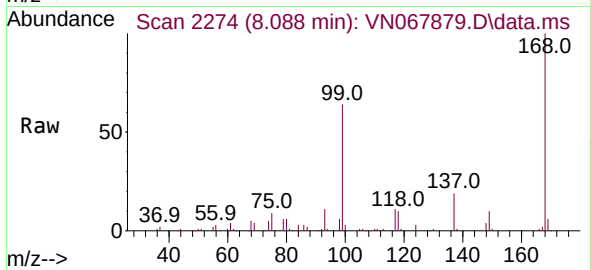




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. 0.002 min  
Lab File: VN067879.D  
Acq: 23 Jul 2021 14:51

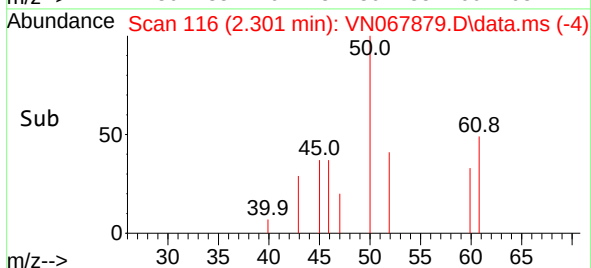
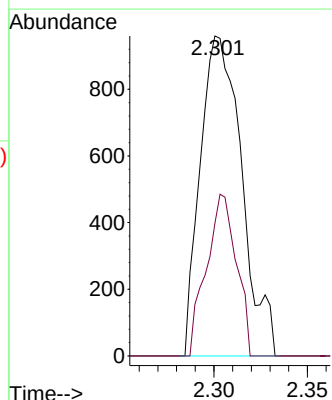
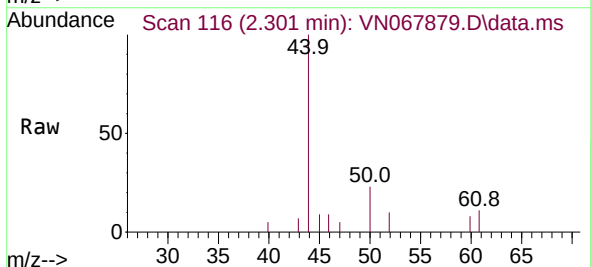
Instrument :  
MSVOA\_N  
ClientSampleId :

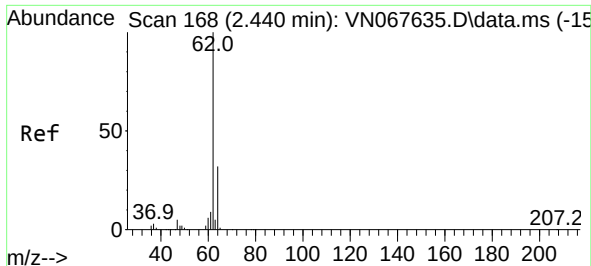
Tgt Ion:168 Resp: 291013  
Ion Ratio Lower Upper  
168 100  
99 63.7 62.9 94.3



#3  
Chloromethane  
Concen: 0.376 ug/l  
RT: 2.301 min Scan# 116  
Delta R.T. -0.000 min  
Lab File: VN067879.D  
Acq: 23 Jul 2021 14:51

Tgt Ion: 50 Resp: 1475  
Ion Ratio Lower Upper  
50 100  
52 41.5 25.6 38.4#

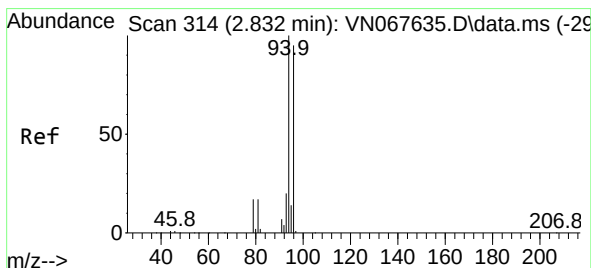
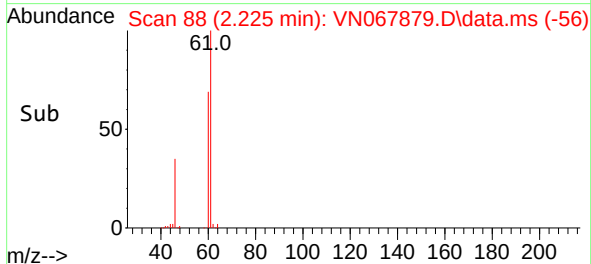
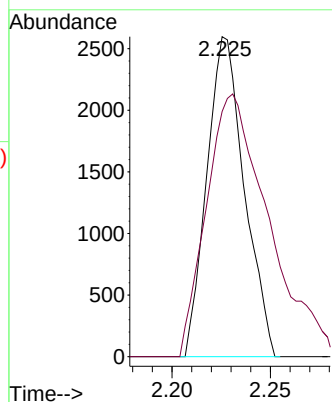
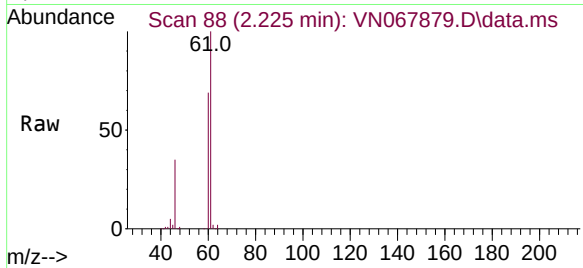




#4  
 Vinyl Chloride  
 Concen: 0.582 ug/l  
 RT: 2.225 min Scan# 88  
 Delta R.T. -0.215 min  
 Lab File: VN067879.D  
 Acq: 23 Jul 2021 14:51

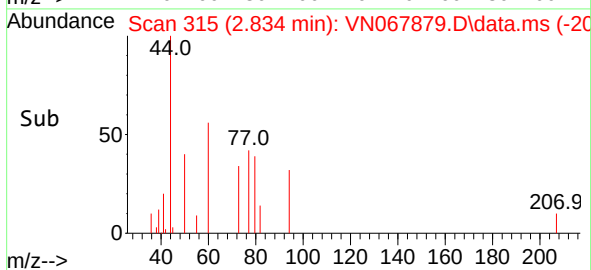
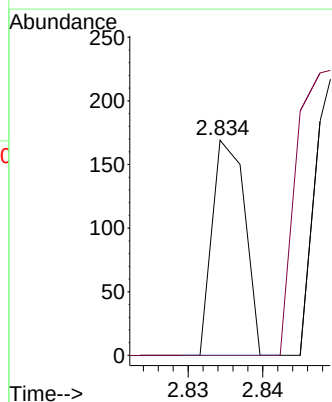
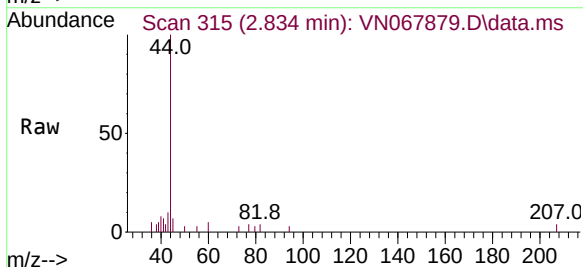
Instrument :  
 MSVOA\_N  
 ClientSampled :

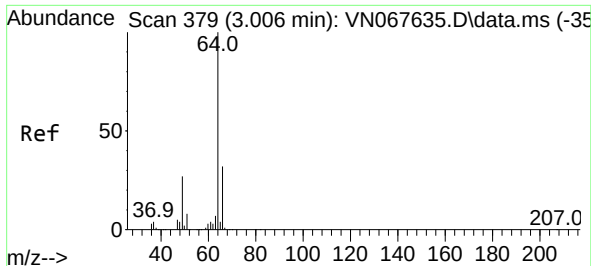
Tgt Ion: 62 Resp: 3439  
 Ion Ratio Lower Upper  
 62 100  
 64 76.6 24.4 36.6#



#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 2.834 min Scan# 315  
 Delta R.T. 0.002 min  
 Lab File: VN067879.D  
 Acq: 23 Jul 2021 14:51

Tgt Ion: 94 Resp: 51  
 Ion Ratio Lower Upper  
 94 100  
 96 0.0 73.7 110.5#

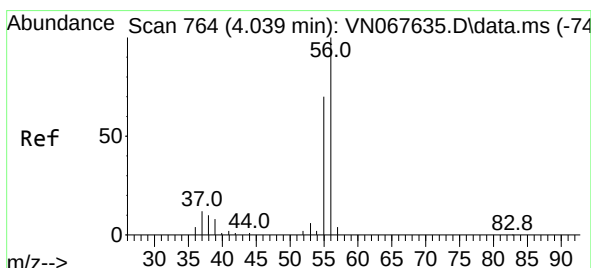
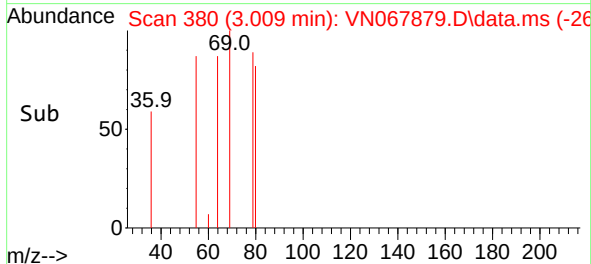
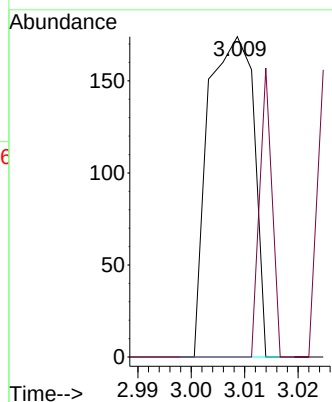
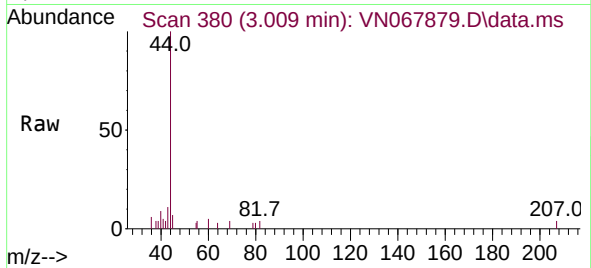




#6  
Chloroethane  
Concen: Below Cal  
RT: 3.009 min Scan# 380  
Delta R.T. 0.003 min  
Lab File: VN067879.D  
Acq: 23 Jul 2021 14:51

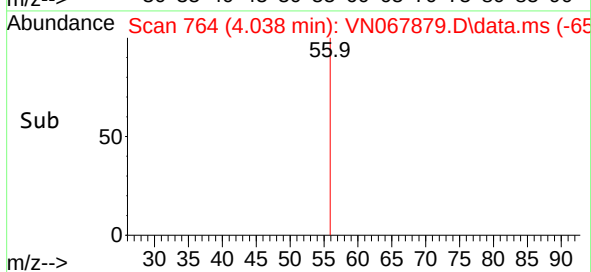
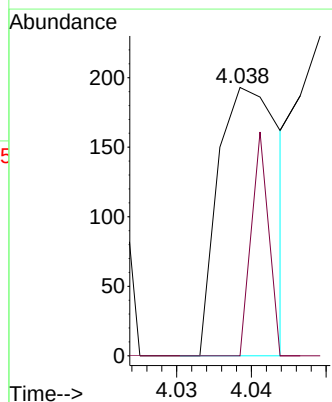
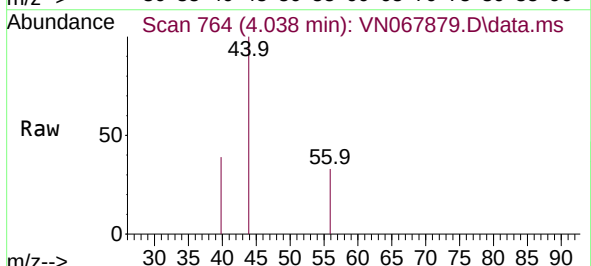
Instrument :  
MSVOA\_N  
ClientSampled :

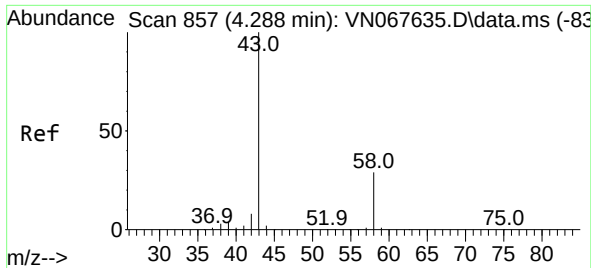
Tgt Ion: 64 Resp: 103  
Ion Ratio Lower Upper  
64 100  
66 0.0 24.7 37.1#



#13  
Acrolein  
Concen: Below Cal  
RT: 4.038 min Scan# 764  
Delta R.T. -0.001 min  
Lab File: VN067879.D  
Acq: 23 Jul 2021 14:51

Tgt Ion: 56 Resp: 111  
Ion Ratio Lower Upper  
56 100  
55 23.4 57.4 86.0#

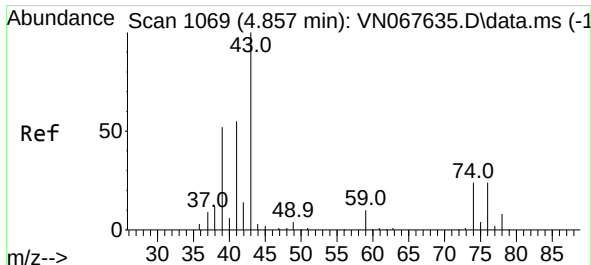
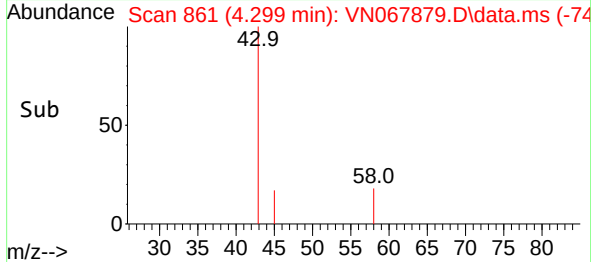
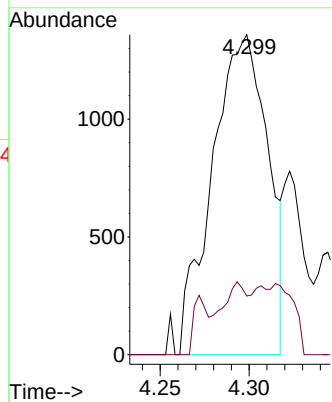
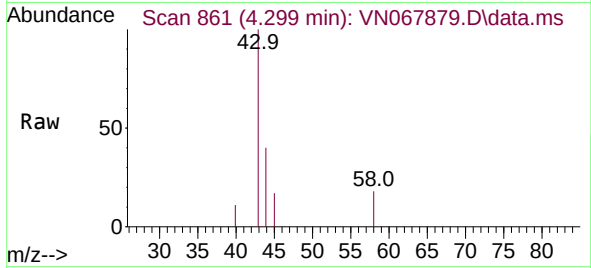




#16  
Acetone  
Concen: 2.135 ug/l  
RT: 4.299 min Scan# 861  
Delta R.T. 0.011 min  
Lab File: VN067879.D  
Acq: 23 Jul 2021 14:51

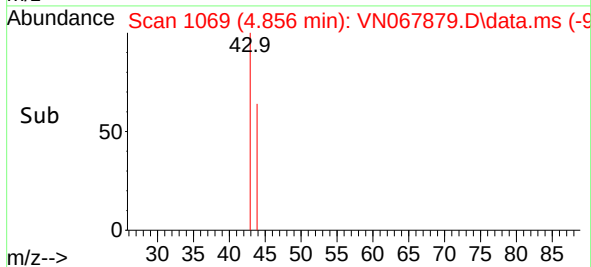
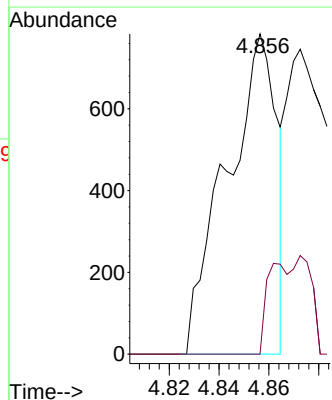
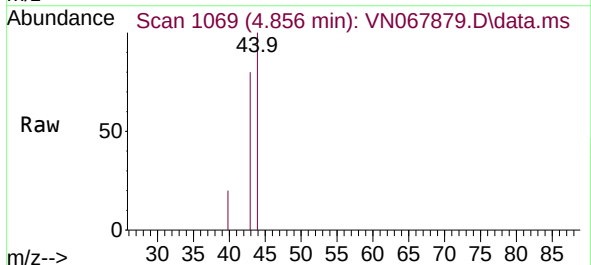
Instrument :  
MSVOA\_N  
ClientSampled :

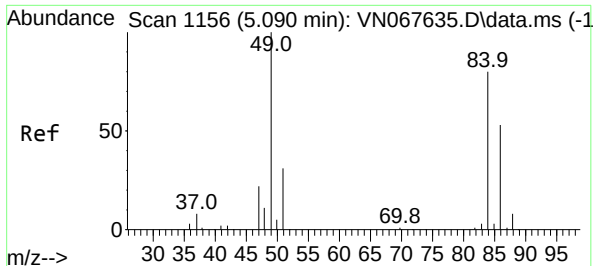
Tgt Ion: 43 Resp: 2954  
Ion Ratio Lower Upper  
43 100  
58 18.3 21.2 31.8#



#18  
Methyl Acetate  
Concen: 0.282 ug/l  
RT: 4.856 min Scan# 1069  
Delta R.T. -0.001 min  
Lab File: VN067879.D  
Acq: 23 Jul 2021 14:51

Tgt Ion: 43 Resp: 1095  
Ion Ratio Lower Upper  
43 100  
74 12.1 17.4 26.0#





#20

Methylene Chloride

Concen: Below Cal

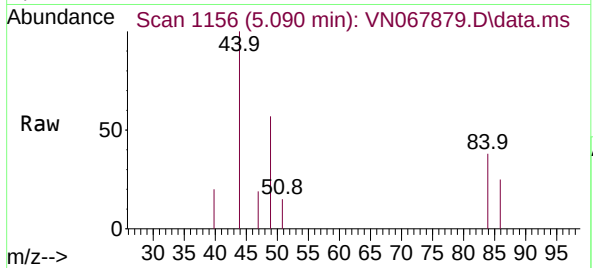
RT: 5.090 min Scan# 1156

Delta R.T. -0.000 min

Lab File: VN067879.D

Acq: 23 Jul 2021 14:51

Instrument :  
MSVOA\_N  
ClientSampled :



Tgt Ion: 84 Resp: 497

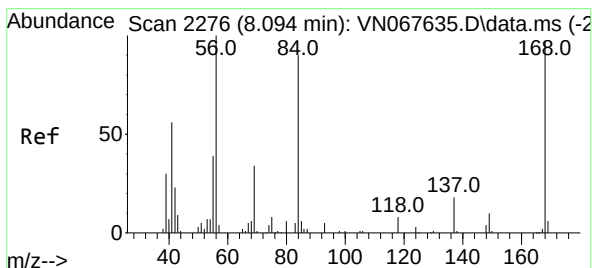
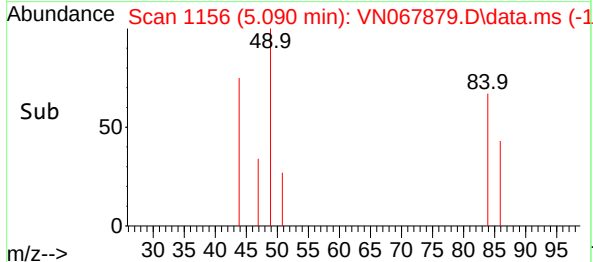
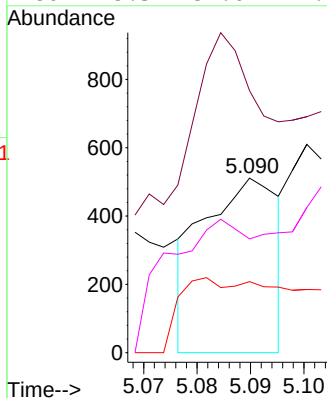
Ion Ratio Lower Upper

84 100

49 155.1 110.9 166.3

51 25.3 32.6 49.0#

86 25.3 51.6 77.4#



#31

Cyclohexane

Concen: 1.213 ug/l

RT: 8.088 min Scan# 2274

Delta R.T. -0.006 min

Lab File: VN067879.D

Acq: 23 Jul 2021 14:51

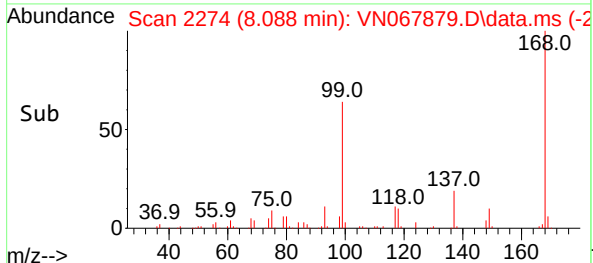
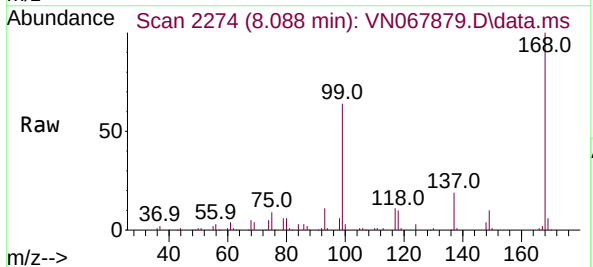
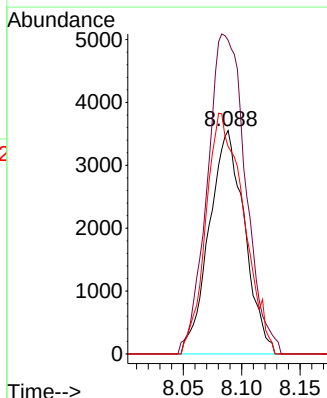
Tgt Ion: 56 Resp: 7482

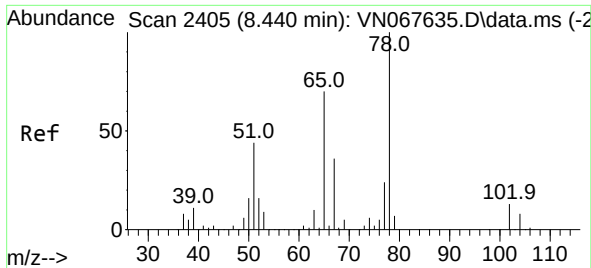
Ion Ratio Lower Upper

56 100

69 140.5 27.3 40.9#

84 92.9 64.9 97.3



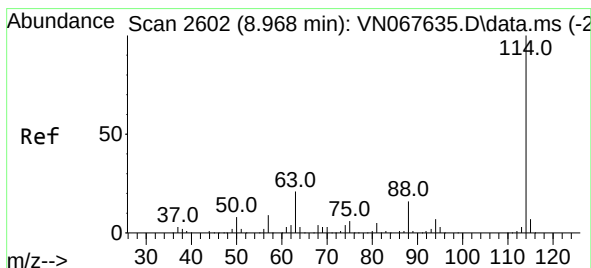
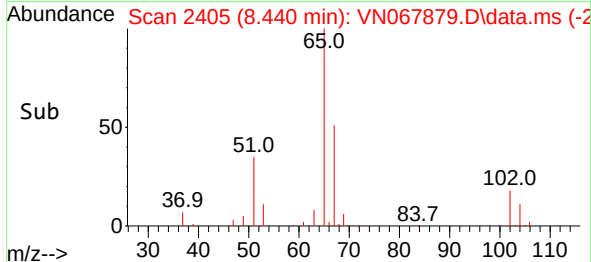
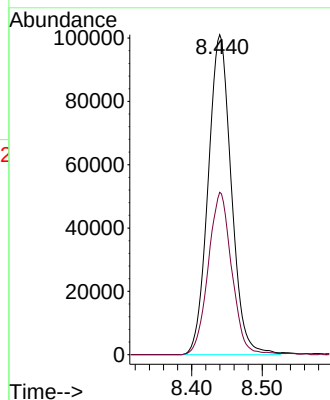
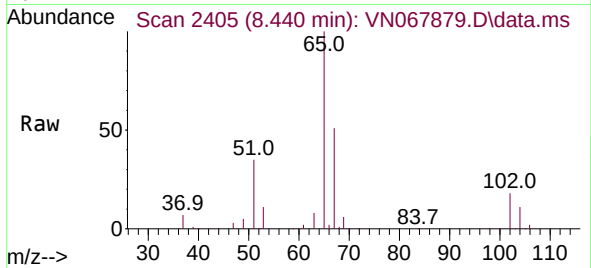


#33

1,2-Dichloroethane-d4  
Concen: 52.442 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. -0.000 min  
Lab File: VN067879.D  
Acq: 23 Jul 2021 14:51

Instrument :  
MSVOA\_N  
ClientSampled :

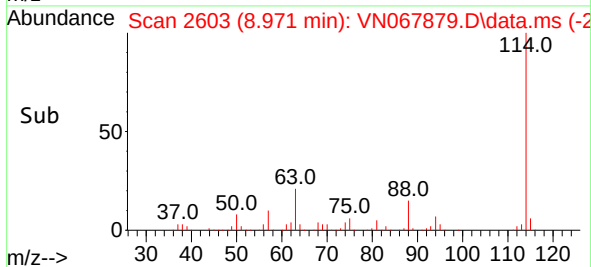
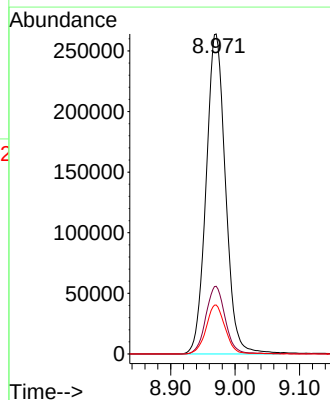
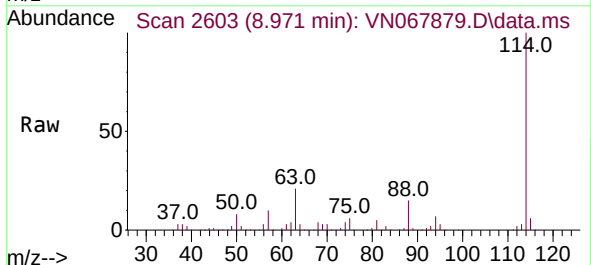
Tgt Ion: 65 Resp: 230646  
Ion Ratio Lower Upper  
65 100  
67 51.4 0.0 98.6



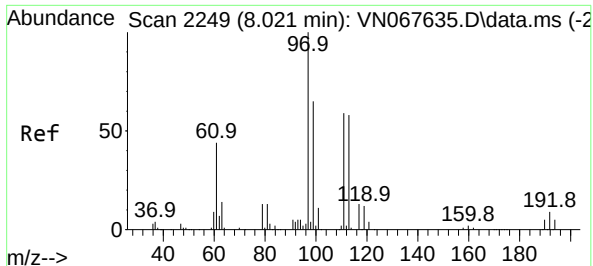
#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.003 min  
Lab File: VN067879.D  
Acq: 23 Jul 2021 14:51

Tgt Ion: 114 Resp: 551983  
Ion Ratio Lower Upper  
114 100  
63 21.2 0.0 49.0  
88 15.3 0.0 36.6







#35

Dibromofluoromethane

Concen: 51.367 ug/l

RT: 8.024 min Scan# 2250

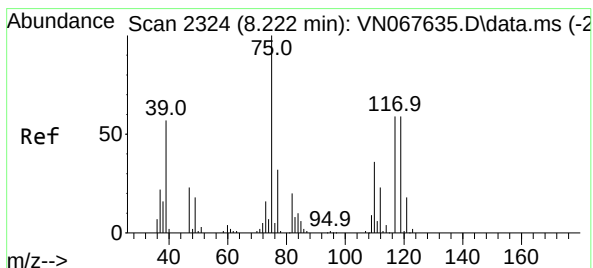
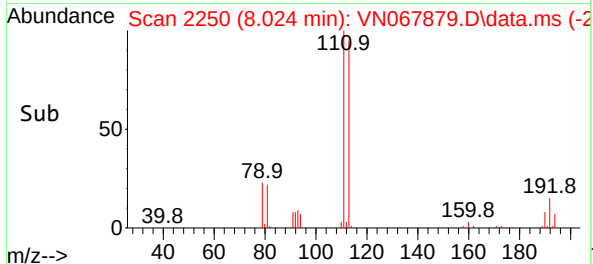
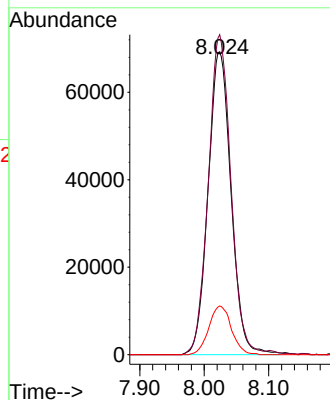
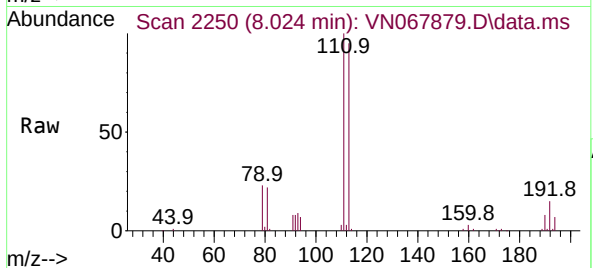
Delta R.T. 0.003 min

Lab File: VN067879.D

Acq: 23 Jul 2021 14:51

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 171305 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 103.8 | 83.8  | 125.8  |
| 192      | 15.9  | 13.4  | 20.0   |

Instrument :  
MSVOA\_N  
ClientSampleId :



#36

1,1-Dichloropropene

Concen: 5.173 ug/l

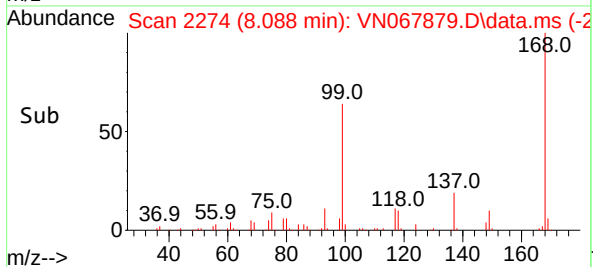
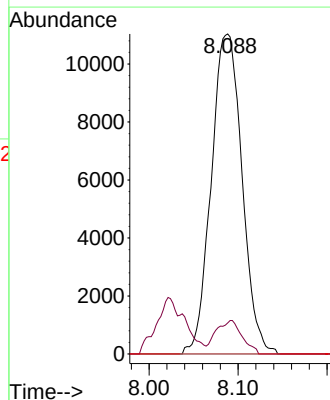
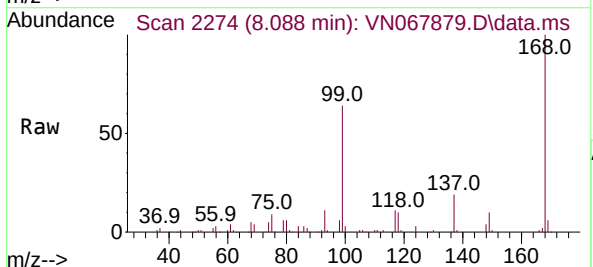
RT: 8.088 min Scan# 2274

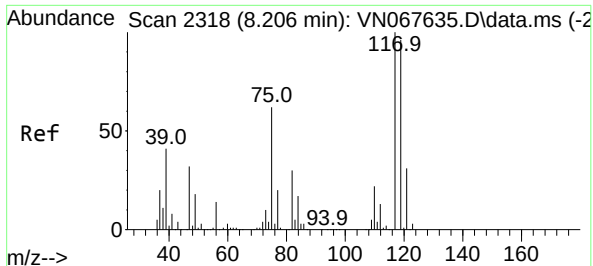
Delta R.T. -0.134 min

Lab File: VN067879.D

Acq: 23 Jul 2021 14:51

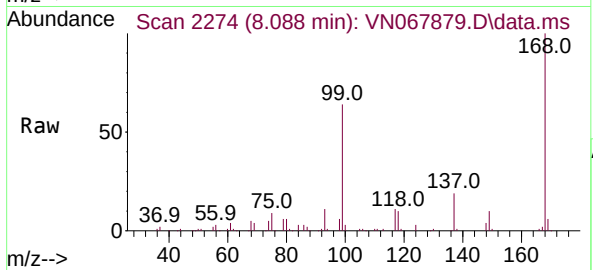
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 26526 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 8.9   | 15.7  | 47.0# |
| 77       | 0.0   | 24.6  | 37.0# |



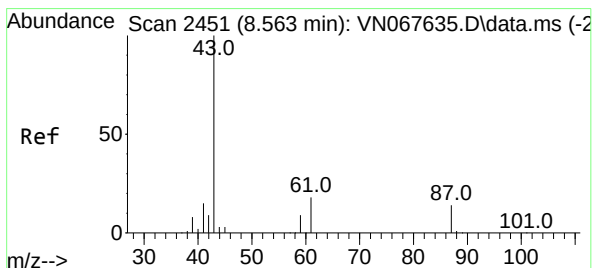
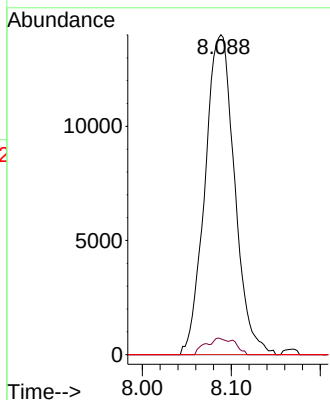
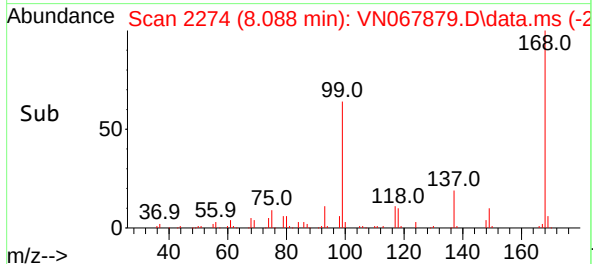


#38  
Carbon Tetrachloride  
Concen: 6.417 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.118 min  
Lab File: VN067879.D  
Acq: 23 Jul 2021 14:51

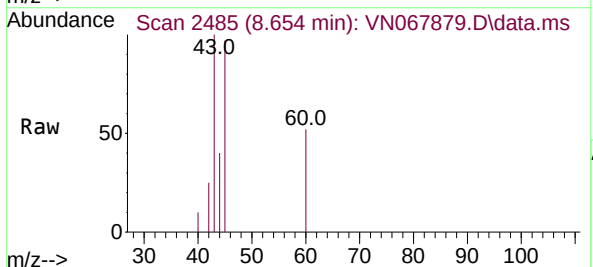
Instrument :  
MSVOA\_N  
ClientSampleId :



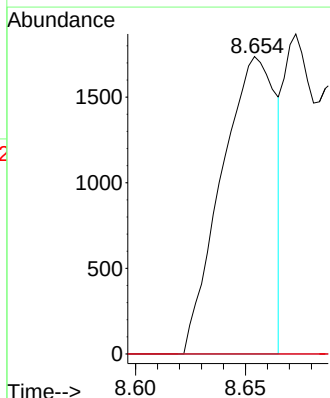
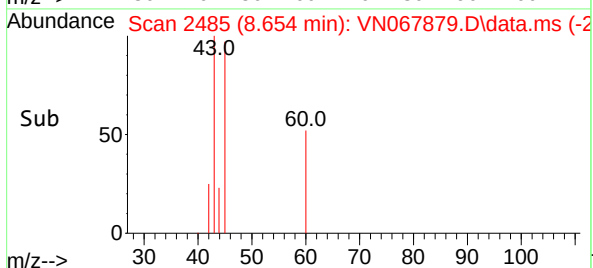
Tgt Ion:117 Resp: 32454  
Ion Ratio Lower Upper  
117 100  
119 5.0 75.4 113.2#  
121 0.0 23.5 35.3#

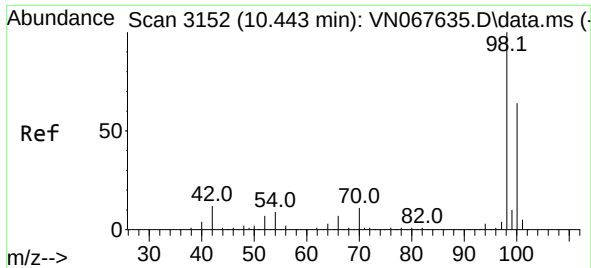


#43  
Isopropyl Acetate  
Concen: 0.341 ug/l  
RT: 8.654 min Scan# 2485  
Delta R.T. 0.091 min  
Lab File: VN067879.D  
Acq: 23 Jul 2021 14:51



Tgt Ion: 43 Resp: 2980  
Ion Ratio Lower Upper  
43 100  
61 0.0 19.0 28.4#  
87 0.0 9.5 14.3#

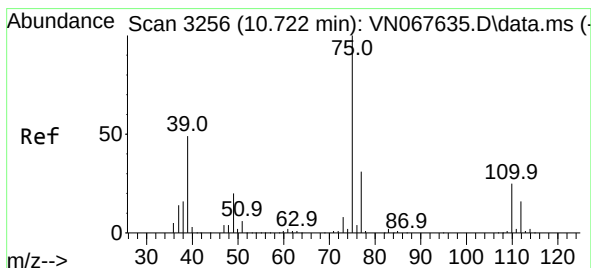
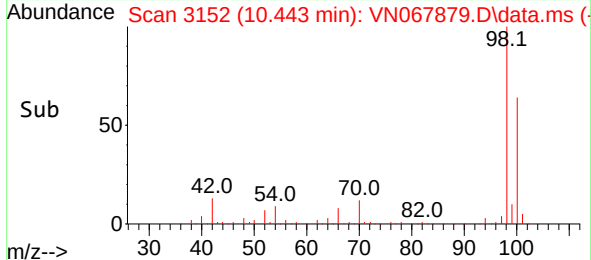
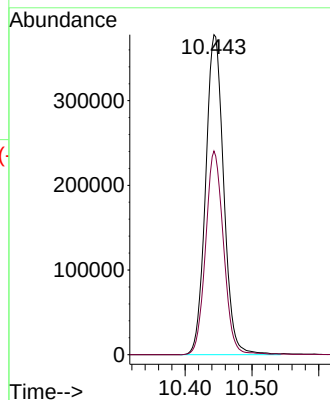
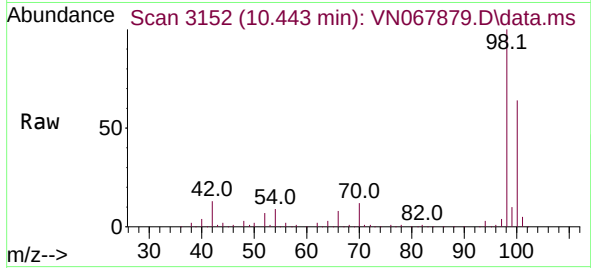




#50  
Toluene-d8  
Concen: 50.884 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.000 min  
Lab File: VN067879.D  
Acq: 23 Jul 2021 14:51

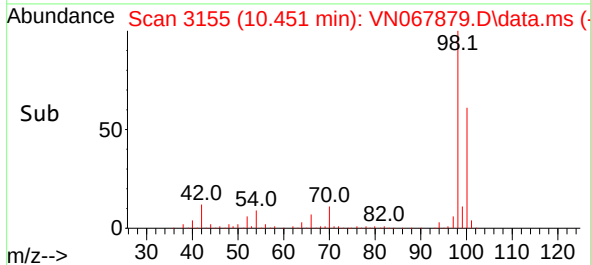
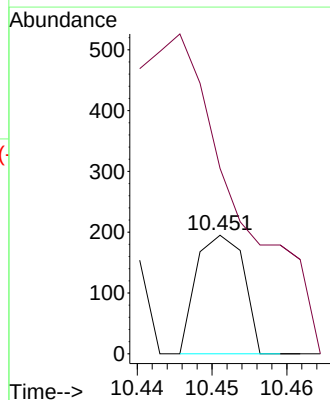
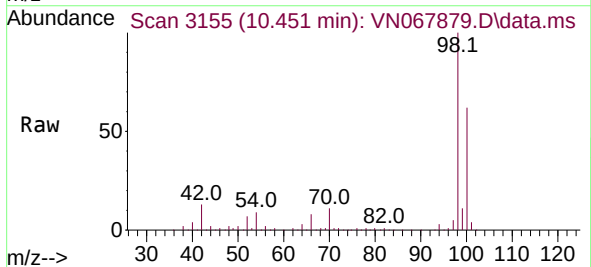
Instrument :  
MSVOA\_N  
ClientSampled :

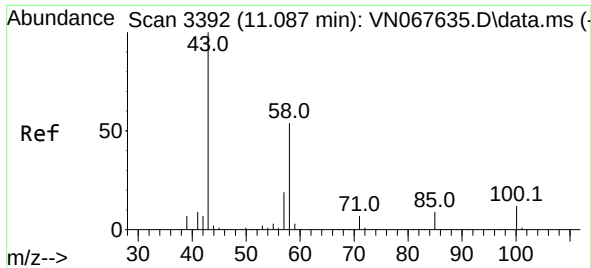
Tgt Ion: 98 Resp: 710308  
Ion Ratio Lower Upper  
98 100  
100 63.1 51.7 77.5



#53  
t-1,3-Dichloropropene  
Concen: 1.757 ug/l  
RT: 10.451 min Scan# 3155  
Delta R.T. -0.271 min  
Lab File: VN067879.D  
Acq: 23 Jul 2021 14:51

Tgt Ion: 75 Resp: 86  
Ion Ratio Lower Upper  
75 100  
77 64.6 25.1 37.7#

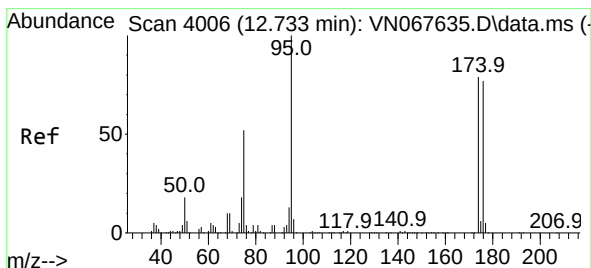
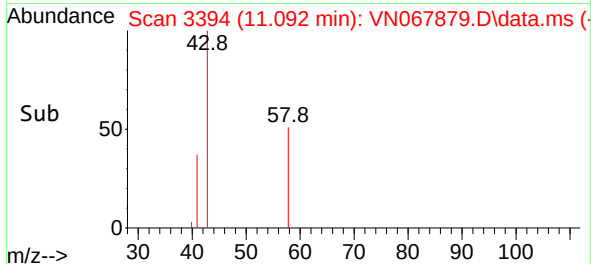
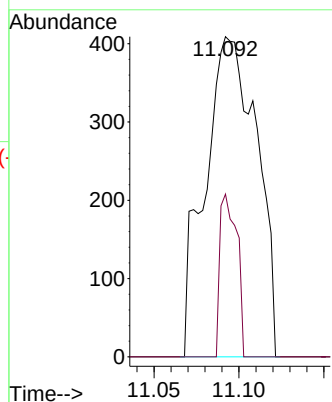
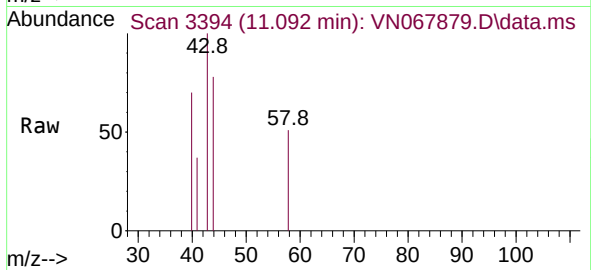




#59  
2-Hexanone  
Concen: 0.231 ug/l  
RT: 11.092 min Scan# 3394  
Delta R.T. 0.005 min  
Lab File: VN067879.D  
Acq: 23 Jul 2021 14:51

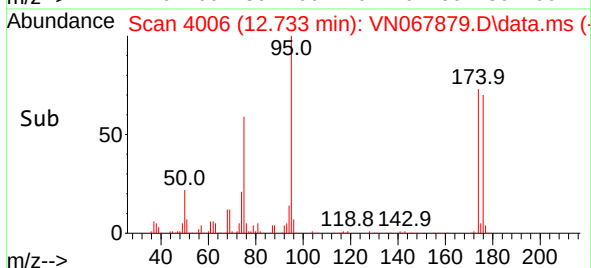
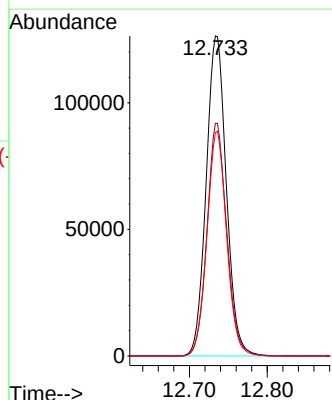
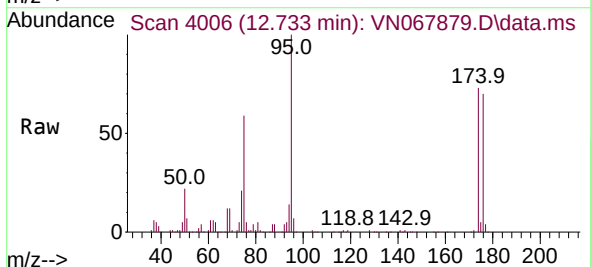
Instrument :  
MSVOA\_N  
ClientSampled :

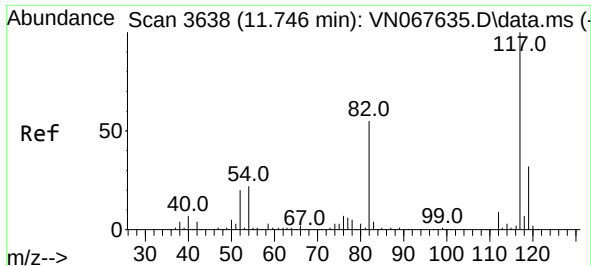
Tgt Ion: 43 Resp: 867  
Ion Ratio Lower Upper  
43 100  
58 16.6 24.7 74.1#



#62  
4-Bromofluorobenzene  
Concen: 46.077 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.000 min  
Lab File: VN067879.D  
Acq: 23 Jul 2021 14:51

Tgt Ion: 95 Resp: 227216  
Ion Ratio Lower Upper  
95 100  
174 71.4 0.0 122.0  
176 68.6 0.0 117.6

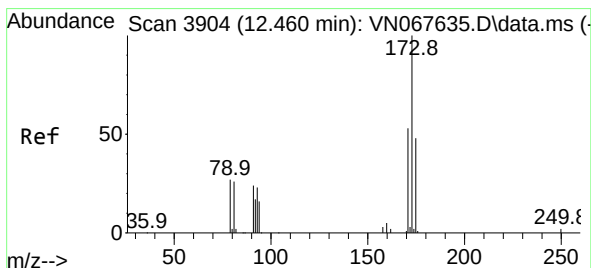
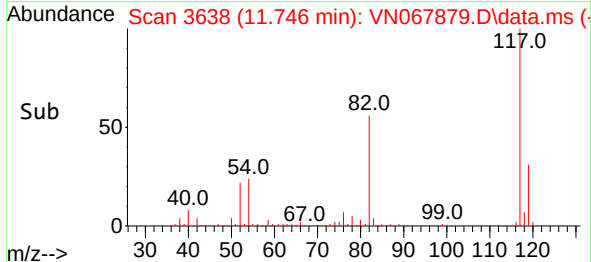
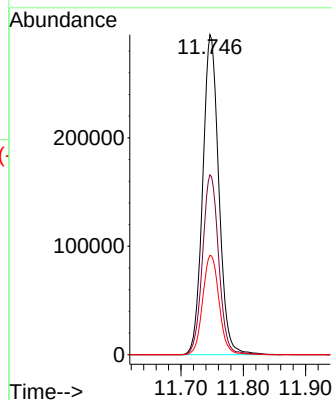
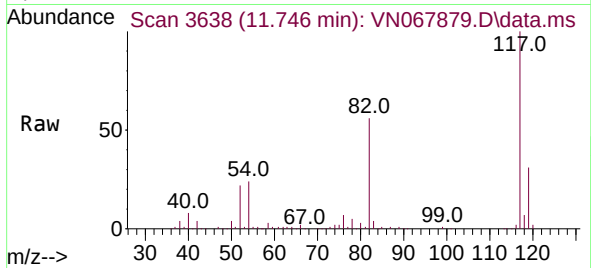




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.746 min Scan# 3638  
Delta R.T. -0.000 min  
Lab File: VN067879.D  
Acq: 23 Jul 2021 14:51

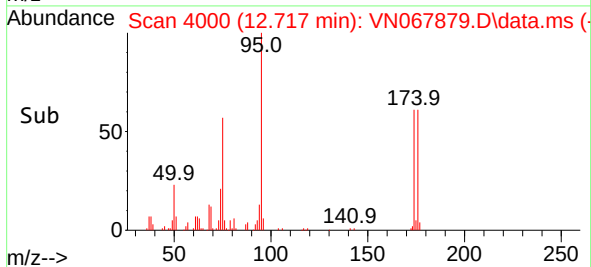
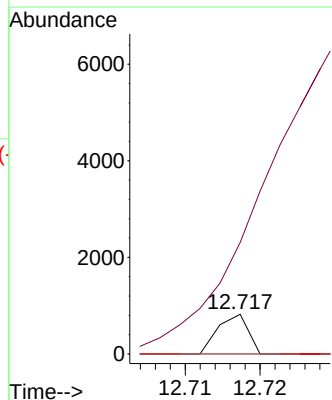
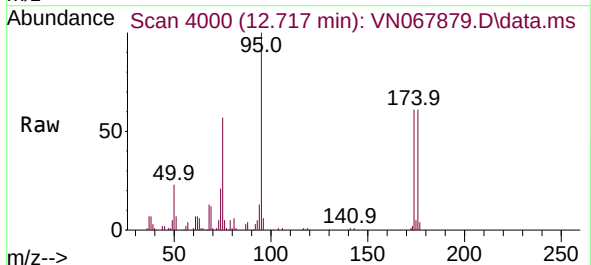
Instrument :  
MSVOA\_N  
ClientSampled :

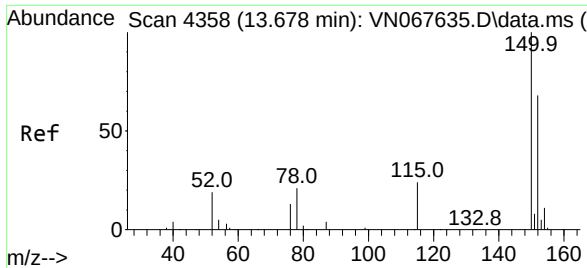
Tgt Ion:117 Resp: 530048  
Ion Ratio Lower Upper  
117 100  
82 56.2 53.1 79.7  
119 31.1 25.5 38.3



#71  
Bromoform  
Concen: 3.239 ug/l  
RT: 12.717 min Scan# 4000  
Delta R.T. 0.257 min  
Lab File: VN067879.D  
Acq: 23 Jul 2021 14:51

Tgt Ion:173 Resp: 230  
Ion Ratio Lower Upper  
173 100  
175 4944.3 23.9 71.8#  
254 0.0 0.0 0.0

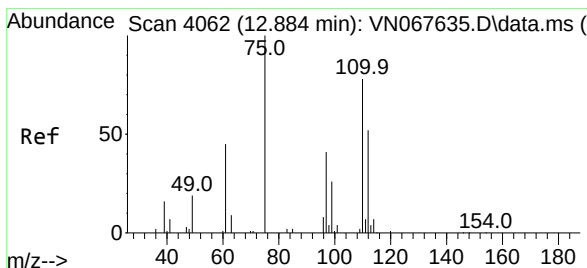
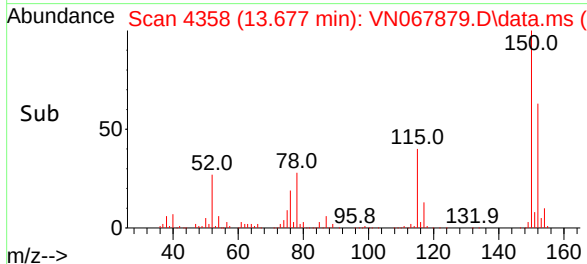
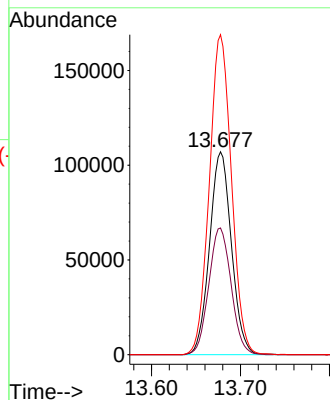
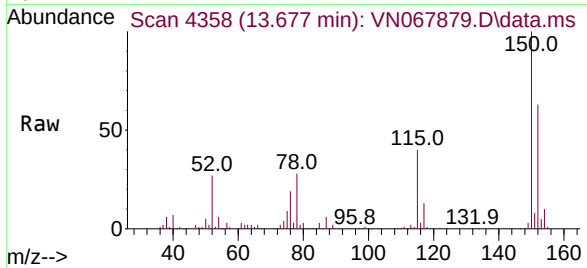




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.677 min Scan# 4358  
 Delta R.T. -0.000 min  
 Lab File: VN067879.D  
 Acq: 23 Jul 2021 14:51

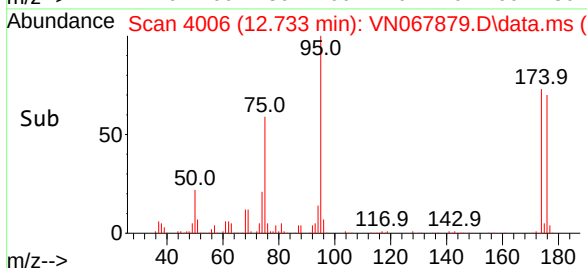
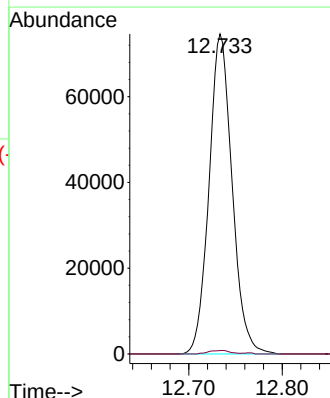
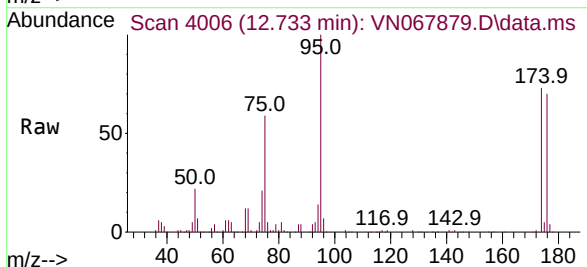
Instrument :  
 MSVOA\_N  
 ClientSampled :

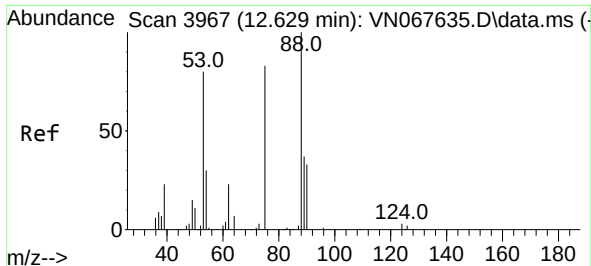
Tgt Ion:152 Resp: 182730  
 Ion Ratio Lower Upper  
 152 100  
 115 63.6 36.1 108.5  
 150 159.2 0.0 351.8



#76  
 1,2,3-Trichloropropane  
 Concen: 34.325 ug/l  
 RT: 12.733 min Scan# 4006  
 Delta R.T. -0.151 min  
 Lab File: VN067879.D  
 Acq: 23 Jul 2021 14:51

Tgt Ion: 75 Resp: 128090  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 0.0 0.0#

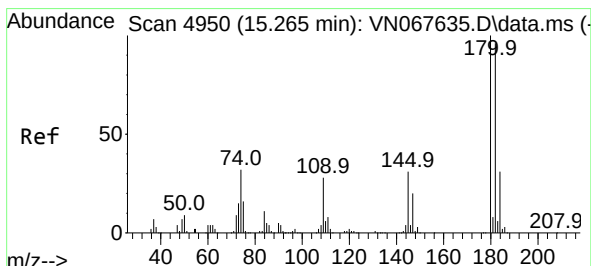
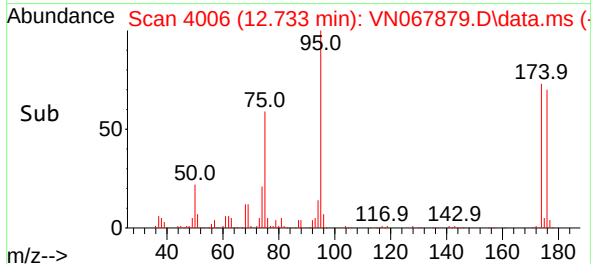
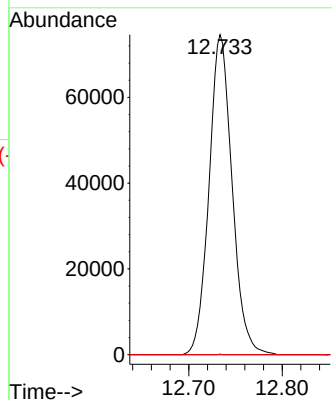
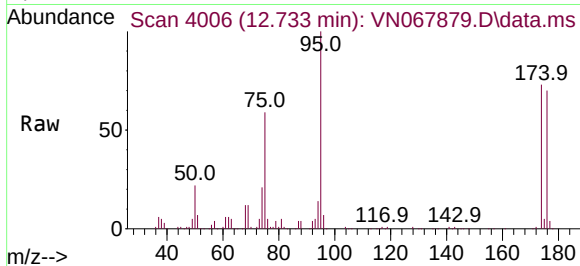




#81  
trans-1,4-Dichloro-2-butene  
Concen: 110.667 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.104 min  
Lab File: VN067879.D  
Acq: 23 Jul 2021 14:51

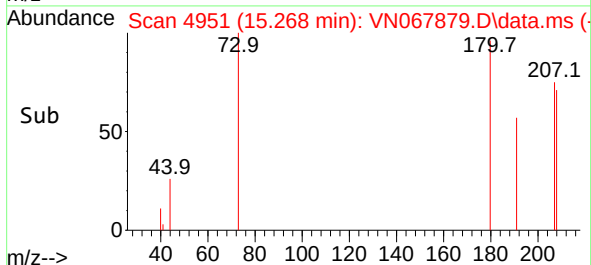
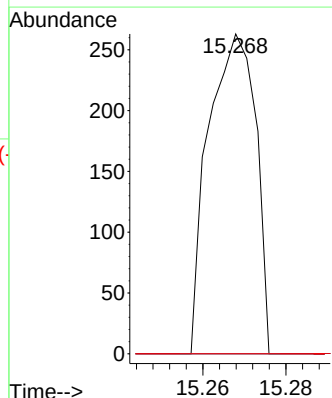
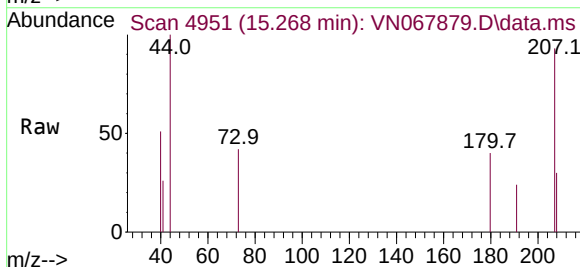
Instrument :  
MSVOA\_N  
ClientSampleId :

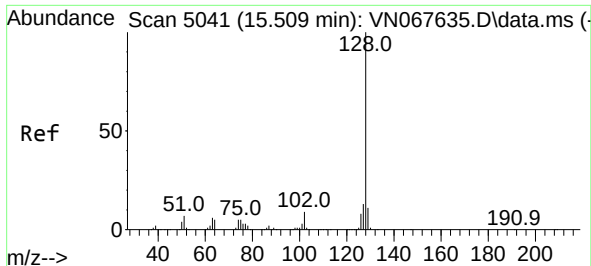
Tgt Ion: 75 Resp: 128090  
Ion Ratio Lower Upper  
75 100  
53 0.0 87.6 131.4#  
89 0.0 37.8 56.8#



#93  
1,2,4-Trichlorobenzene  
Concen: 2.739 ug/l  
RT: 15.268 min Scan# 4951  
Delta R.T. 0.003 min  
Lab File: VN067879.D  
Acq: 23 Jul 2021 14:51

Tgt Ion:180 Resp: 207  
Ion Ratio Lower Upper  
180 100  
182 0.0 47.5 142.5#  
145 0.0 17.2 51.6#

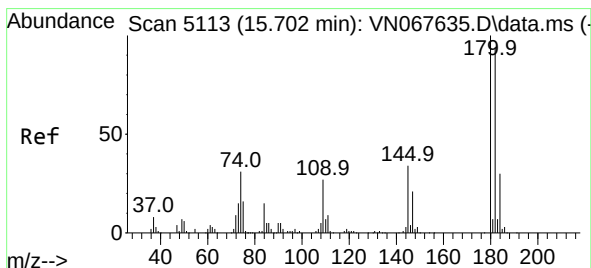
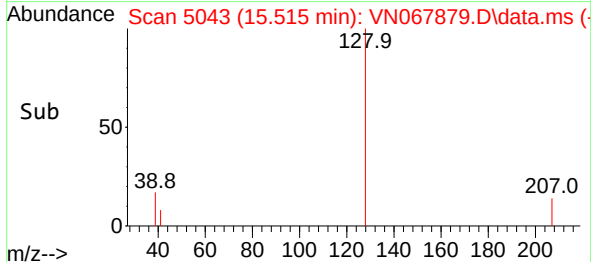
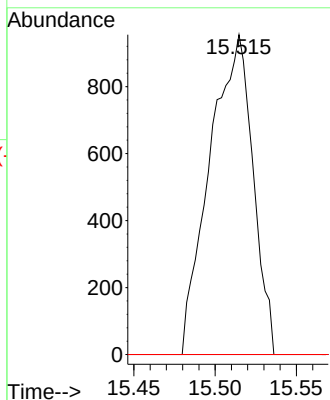
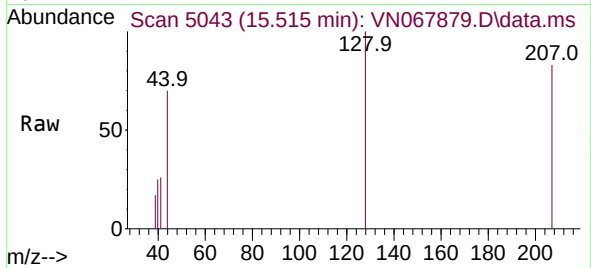




#95  
Naphthalene  
Concen: 3.198 ug/l  
RT: 15.515 min Scan# 5043  
Delta R.T. 0.006 min  
Lab File: VN067879.D  
Acq: 23 Jul 2021 14:51

Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion:128 Resp: 1764  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 15.8#  
129 0.0 8.6 12.8#



#96  
1,2,3-Trichlorobenzene  
Concen: 2.710 ug/l  
RT: 15.702 min Scan# 5113  
Delta R.T. 0.000 min  
Lab File: VN067879.D  
Acq: 23 Jul 2021 14:51

Tgt Ion:180 Resp: 240  
Ion Ratio Lower Upper  
180 100  
182 48.8 47.8 143.3  
145 0.0 18.2 54.6#

