

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102621\  
 Data File : VN069154.D  
 Acq On : 25 Oct 2021 16:20  
 Operator : JC/MD  
 Sample : VN1025MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

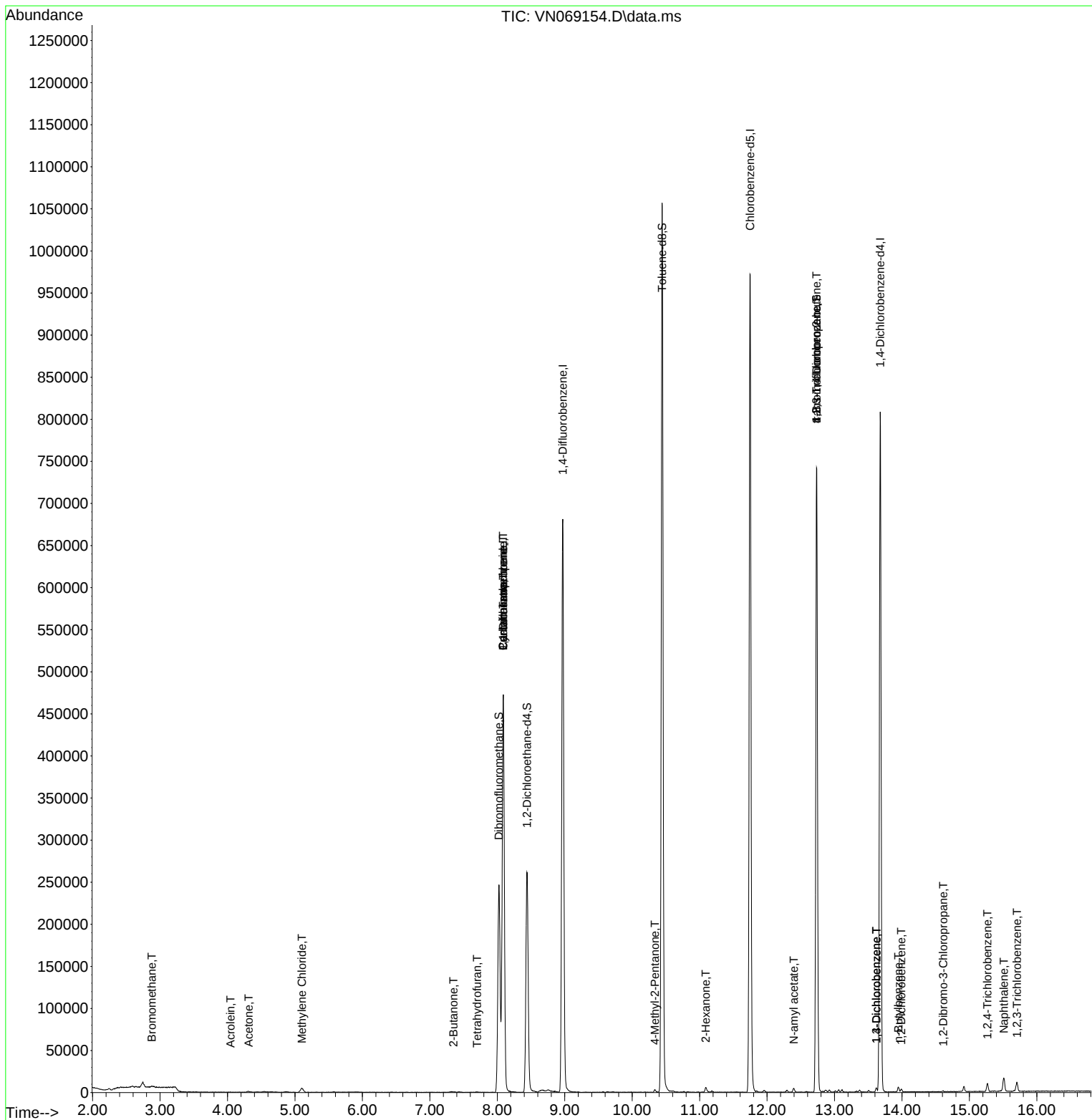
Instrument :  
 MSVOA\_N  
 ClientSampleId :

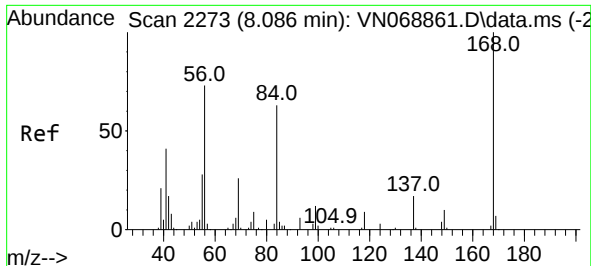
Quant Time: Oct 26 01:34:20 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 13 05:44:40 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 8.088  | 168            | 349926   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.971  | 114            | 612149   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.749 | 117            | 584564   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.678 | 152            | 214843   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.440  | 65             | 231409   | 50.157     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 61 - 141 | Recovery | = 100.320% |        |          |
| 35) Dibromofluoromethane      | 8.024  | 113            | 181950   | 51.087     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 69 - 133 | Recovery | = 102.180% |        |          |
| 50) Toluene-d8                | 10.443 | 98             | 761399   | 53.430     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 65 - 126 | Recovery | = 106.860% |        |          |
| 62) 4-Bromofluorobenzene      | 12.733 | 95             | 272087   | 50.607     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 58 - 135 | Recovery | = 101.220% |        |          |
| Target Compounds              |        |                |          |            |        | Qvalue   |
| 5) Bromomethane               | 2.877  | 94             | 1336     | 0.559      | ug/l   | 83       |
| 13) Acrolein                  | 4.044  | 56             | 218      | 0.585      | ug/l # | 44       |
| 16) Acetone                   | 4.315  | 43             | 1988     | 1.155      | ug/l   | 96       |
| 20) Methylene Chloride        | 5.103  | 84             | 4331     | 1.093      | ug/l   | 87       |
| 25) 2-Butanone                | 7.351  | 43             | 696      | 0.267      | ug/l # | 48       |
| 29) Tetrahydrofuran           | 7.699  | 42             | 386      | 0.229      | ug/l # | 33       |
| 31) Cyclohexane               | 8.088  | 56             | 8378     | 1.168      | ug/l # | 12       |
| 36) 1,1-Dichloropropene       | 8.088  | 75             | 27826    | 5.322      | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.088  | 117            | 36944    | 6.433      | ug/l # | 16       |
| 51) 4-Methyl-2-Pentanone      | 10.338 | 43             | 2457     | 0.445      | ug/l   | 90       |
| 59) 2-Hexanone                | 11.092 | 43             | 5122     | 1.293      | ug/l   | 92       |
| 74) N-amyl acetate            | 12.396 | 43             | 3212     | 0.474      | ug/l # | 93       |
| 76) 1,2,3-Trichloropropane    | 12.733 | 75             | 141075   | 30.861     | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.733 | 75             | 141075   | 73.834     | ug/l # | 12       |
| 87) 1,3-Dichlorobenzene       | 13.621 | 146            | 1636     | 0.239      | ug/l   | 78       |
| 88) 1,4-Dichlorobenzene       | 13.621 | 146            | 1636     | 0.241      | ug/l   | 79       |
| 89) n-Butylbenzene            | 13.948 | 91             | 4178     | 0.348      | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene       | 13.991 | 146            | 1943     | 0.292      | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.611 | 75             | 381      | 0.382      | ug/l   | 75       |
| 93) 1,2,4-Trichlorobenzene    | 15.268 | 180            | 4004     | 3.653      | ug/l   | 93       |
| 95) Naphthalene               | 15.509 | 128            | 17888    | 5.469      | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 15.705 | 180            | 4910     | 3.872      | ug/l   | 94       |

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

Quant Time: Oct 26 01:34:20 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

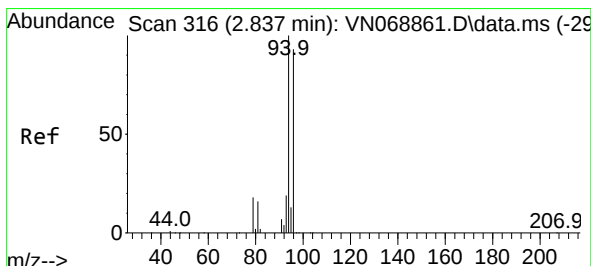
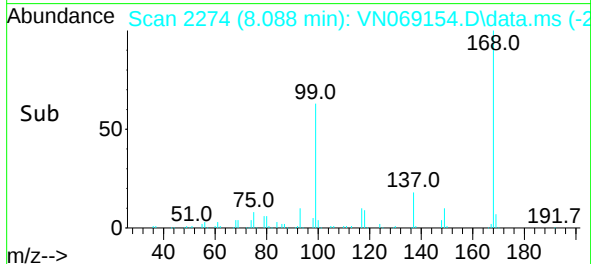
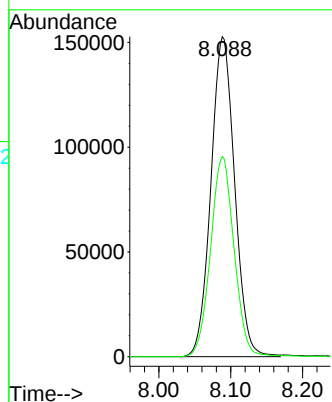
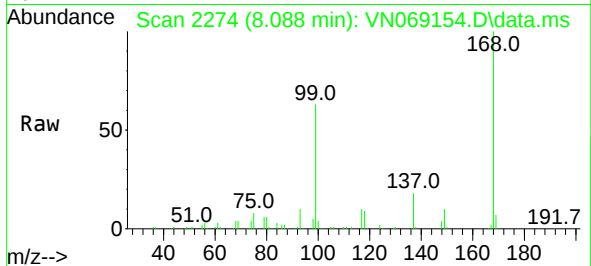




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. 0.002 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

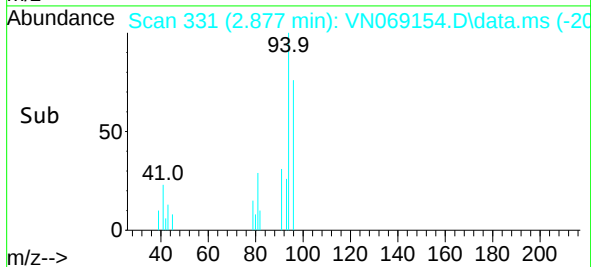
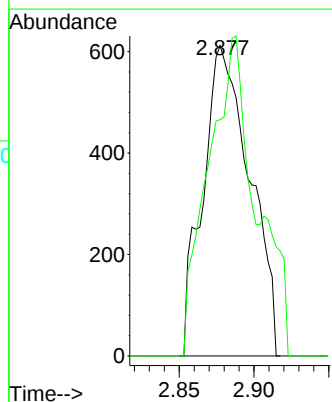
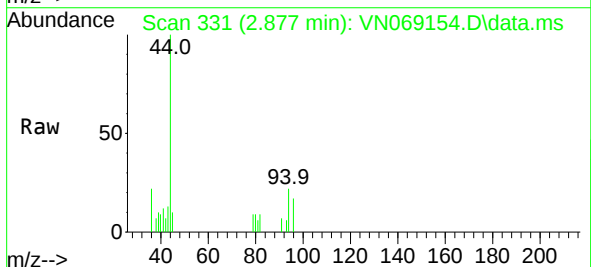
Instrument :  
MSVOA\_N  
ClientSampled :

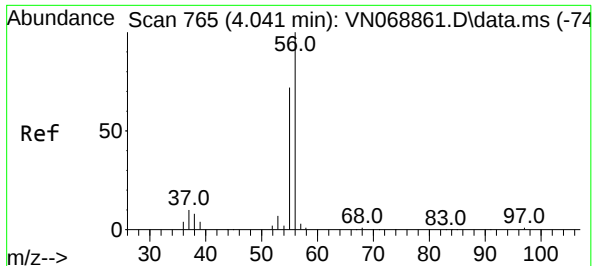
Tgt Ion:168 Resp: 349926  
Ion Ratio Lower Upper  
168 100  
99 62.6 48.9 73.3



#5  
Bromomethane  
Concen: 0.559 ug/l  
RT: 2.877 min Scan# 331  
Delta R.T. 0.040 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

Tgt Ion: 94 Resp: 1336  
Ion Ratio Lower Upper  
94 100  
96 76.1 74.2 111.4

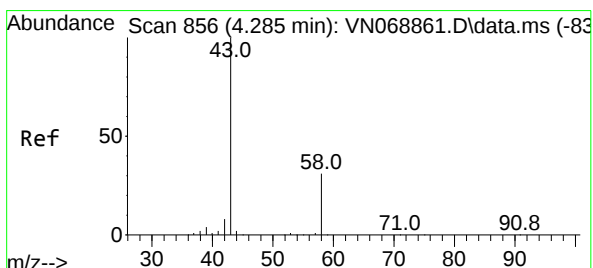
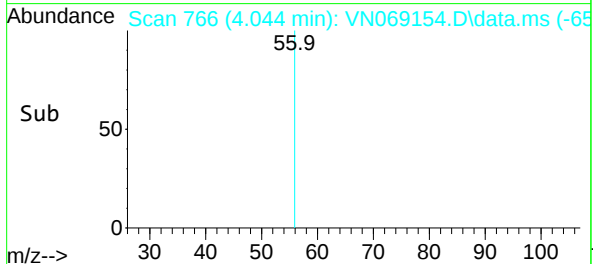
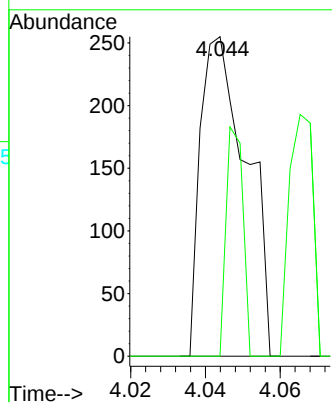
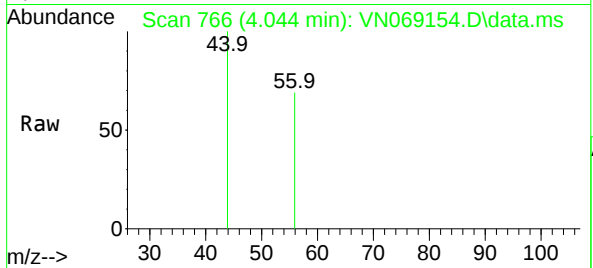




#13  
Acrolein  
Concen: 0.585 ug/l  
RT: 4.044 min Scan# 766  
Delta R.T. 0.003 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

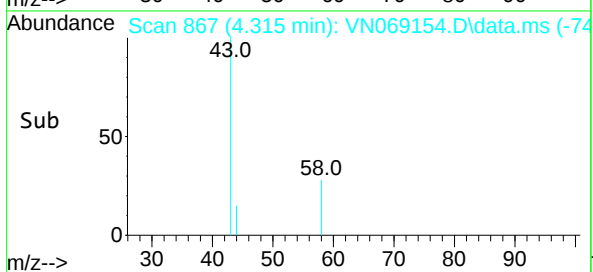
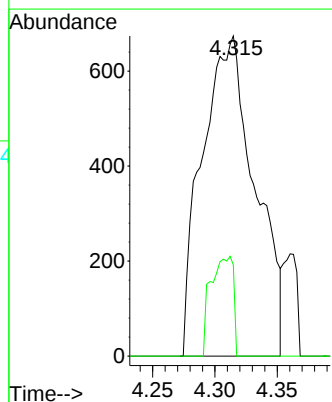
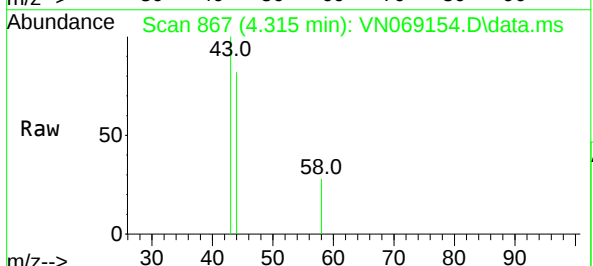
Instrument :  
MSVOA\_N  
ClientSampled :

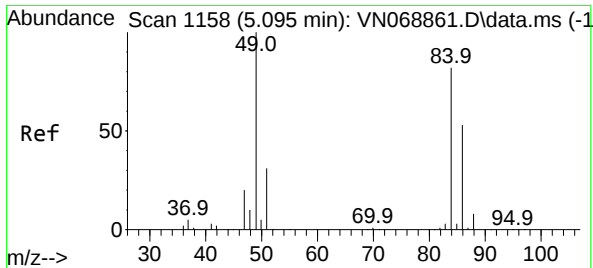
Tgt Ion: 56 Resp: 218  
Ion Ratio Lower Upper  
56 100  
55 26.1 58.1 87.1#



#16  
Acetone  
Concen: 1.155 ug/l  
RT: 4.315 min Scan# 867  
Delta R.T. 0.030 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

Tgt Ion: 43 Resp: 1988  
Ion Ratio Lower Upper  
43 100  
58 28.5 24.5 36.7

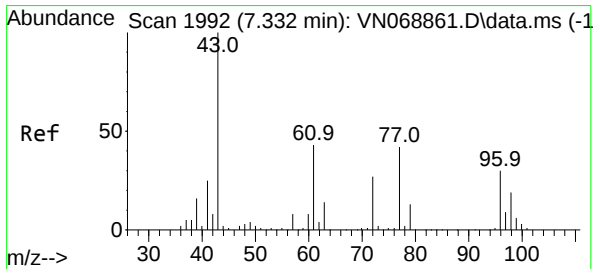
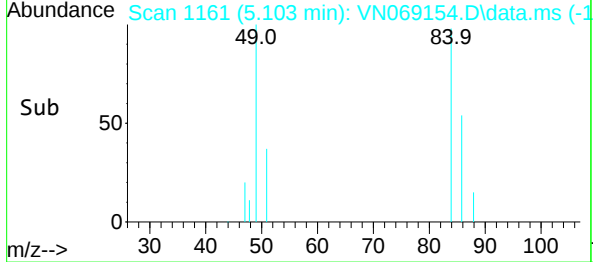
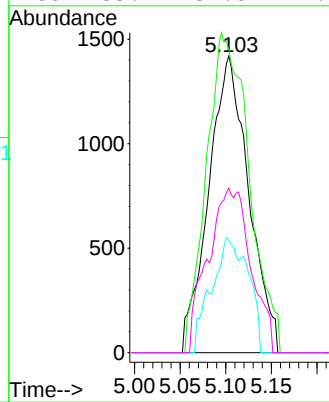
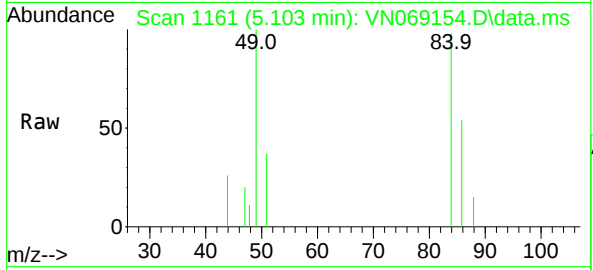




#20  
Methylene Chloride  
Concen: 1.093 ug/l  
RT: 5.103 min Scan# 1161  
Delta R.T. 0.008 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

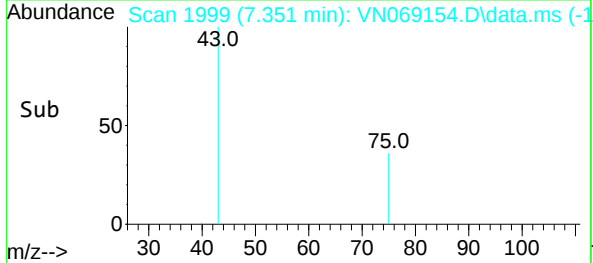
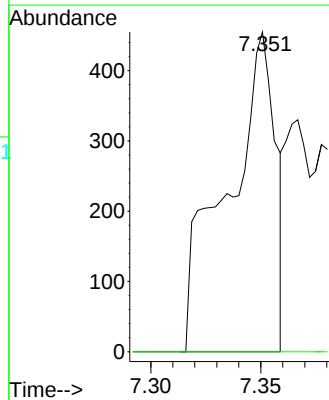
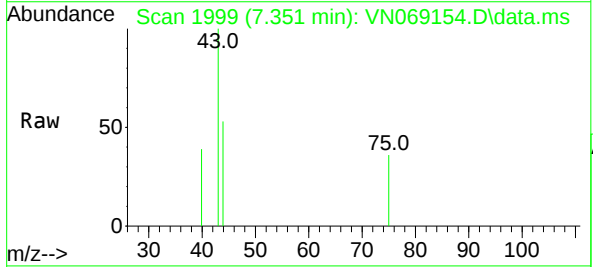
Instrument :  
MSVOA\_N  
ClientSampled :

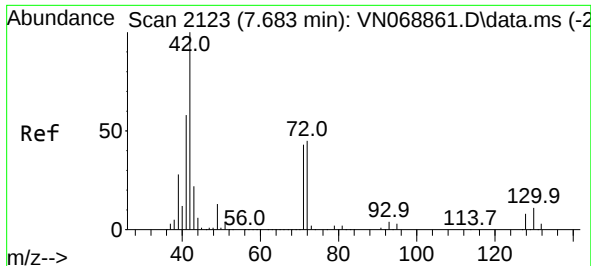
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 4331  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 102.0 | 97.6  | 146.4 |
| 51       | 37.8  | 30.3  | 45.5  |
| 86       | 55.4  | 51.8  | 77.6  |



#25  
2-Butanone  
Concen: 0.267 ug/l  
RT: 7.351 min Scan# 1999  
Delta R.T. 0.019 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 696   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 21.2  | 31.8# |





#29

Tetrahydrofuran

Concen: 0.229 ug/l

RT: 7.699 min Scan# 2129

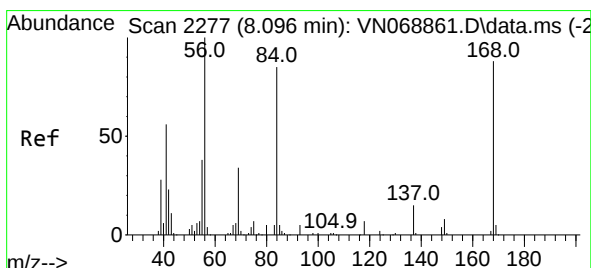
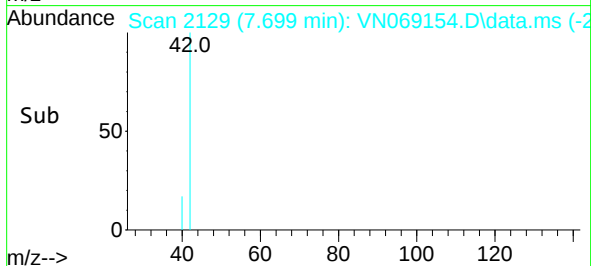
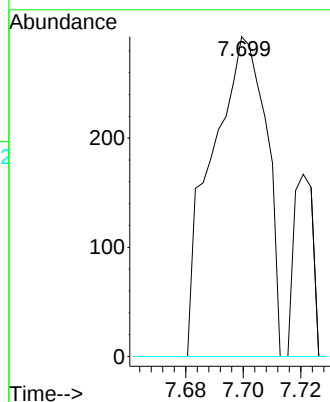
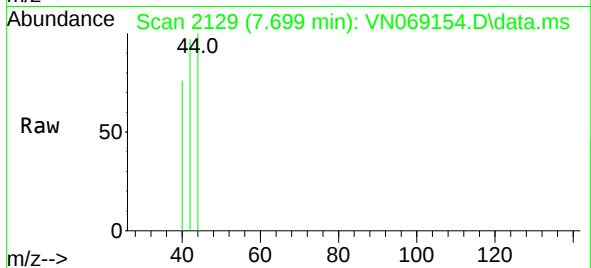
Delta R.T. 0.016 min

Lab File: VN069154.D

Acq: 25 Oct 2021 16:20

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 386   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 35.4  | 53.2# |
| 71       | 0.0   | 33.8  | 50.6# |

Instrument :  
MSVOA\_N  
ClientSampled :



#31

Cyclohexane

Concen: 1.168 ug/l

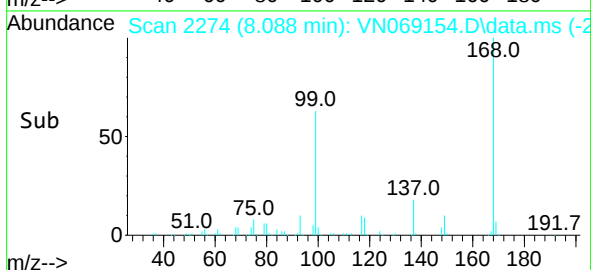
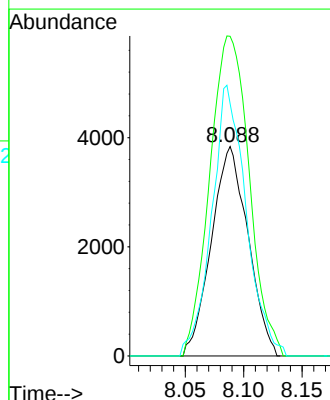
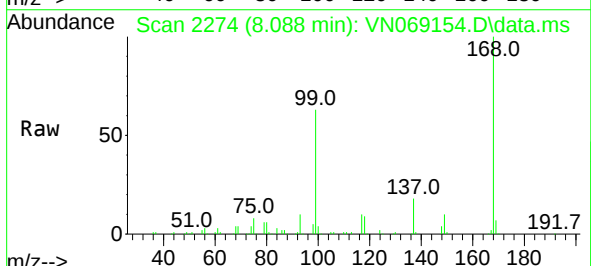
RT: 8.088 min Scan# 2274

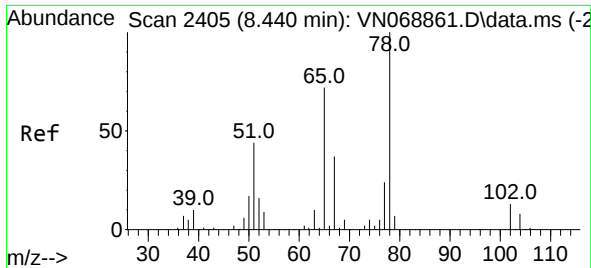
Delta R.T. -0.008 min

Lab File: VN069154.D

Acq: 25 Oct 2021 16:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 8378   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 152.6 | 26.9  | 40.3#  |
| 84       | 120.5 | 67.6  | 101.4# |

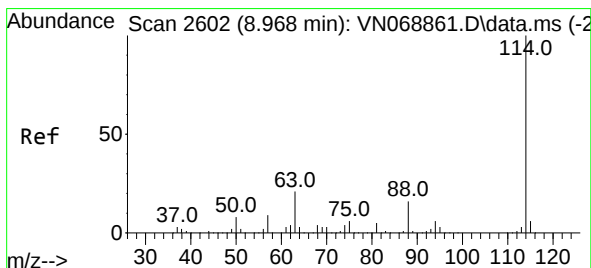
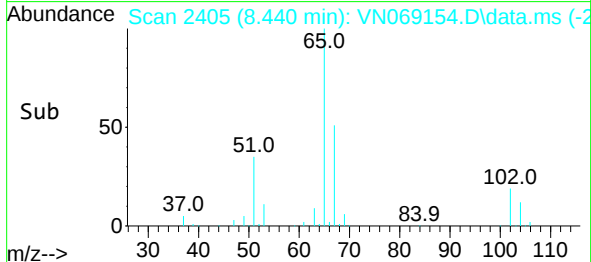
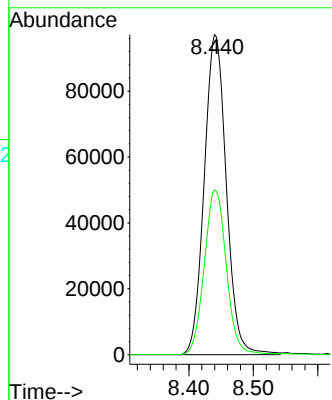
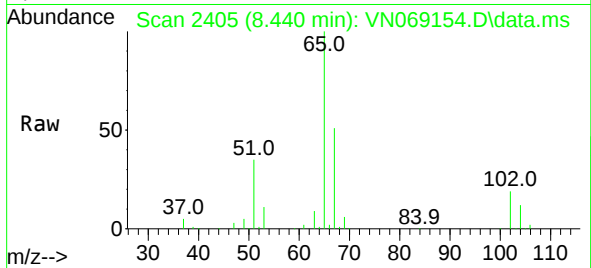




#33  
1,2-Dichloroethane-d4  
Concen: 50.157 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. 0.000 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

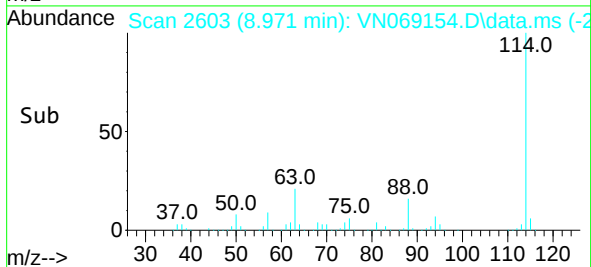
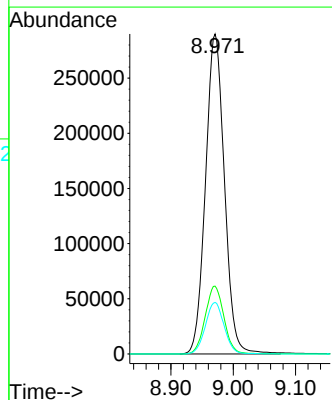
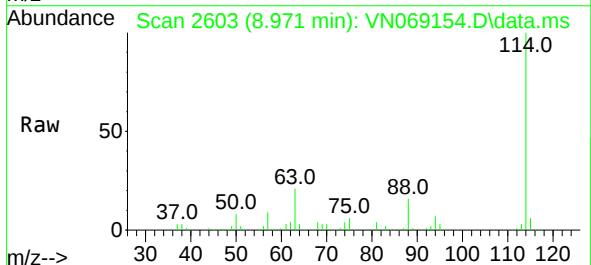
Instrument :  
MSVOA\_N  
ClientSampled :

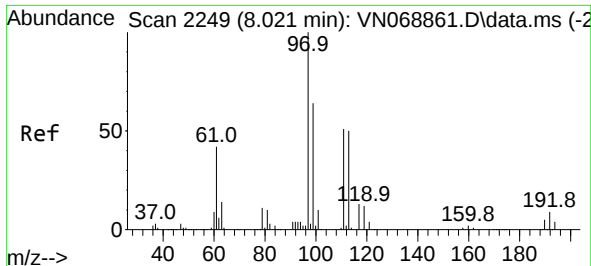
Tgt Ion: 65 Resp: 231409  
Ion Ratio Lower Upper  
65 100  
67 51.5 0.0 103.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.003 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

Tgt Ion: 114 Resp: 612149  
Ion Ratio Lower Upper  
114 100  
63 21.2 0.0 42.6  
88 16.1 0.0 32.0

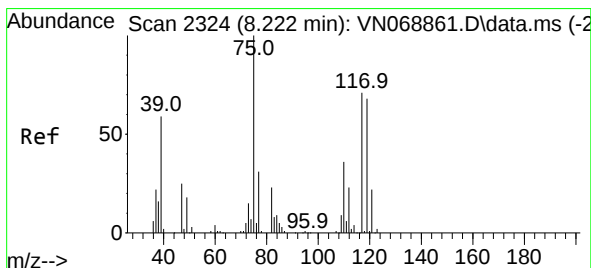
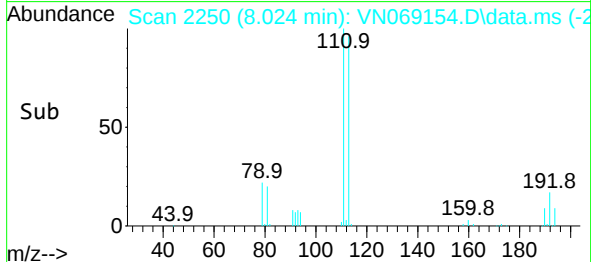
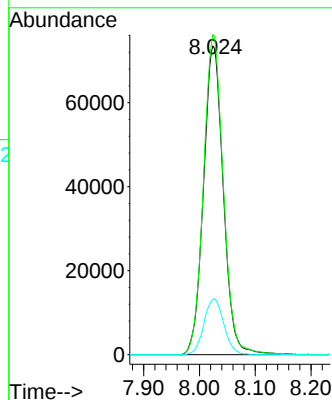
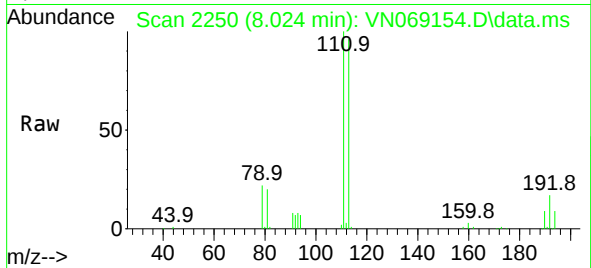




#35  
Dibromofluoromethane  
Concen: 51.087 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. 0.003 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

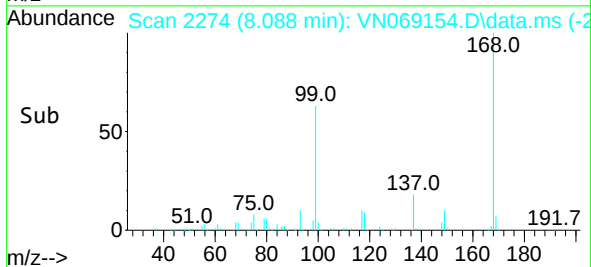
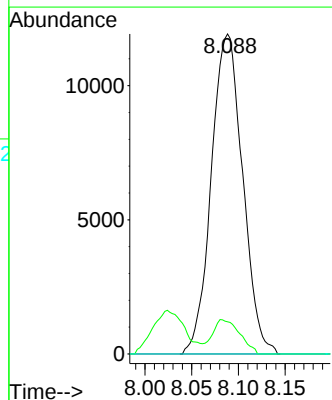
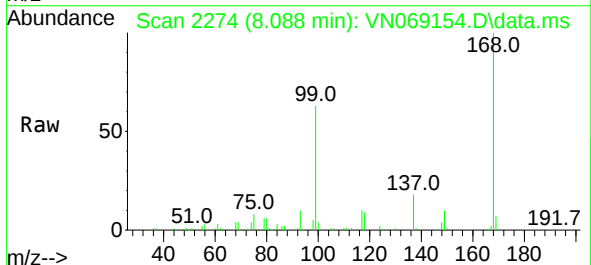
Instrument :  
MSVOA\_N  
ClientSampled :

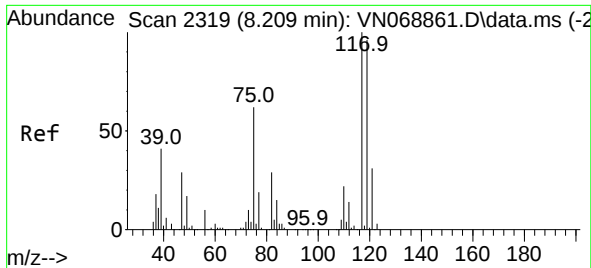
Tgt Ion:113 Resp: 181950  
Ion Ratio Lower Upper  
113 100  
111 103.4 83.2 124.8  
192 18.1 15.0 22.4



#36  
1,1-Dichloropropene  
Concen: 5.322 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.134 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

Tgt Ion: 75 Resp: 27826  
Ion Ratio Lower Upper  
75 100  
110 9.4 17.9 53.8#  
77 0.0 24.7 37.1#

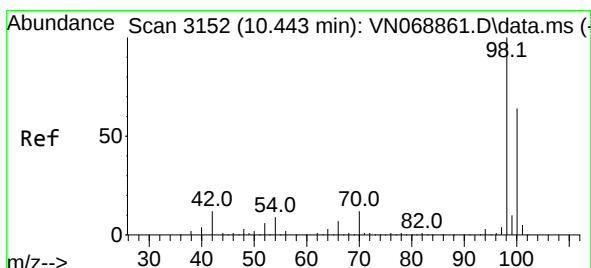
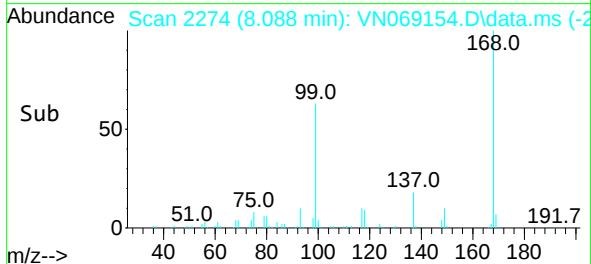
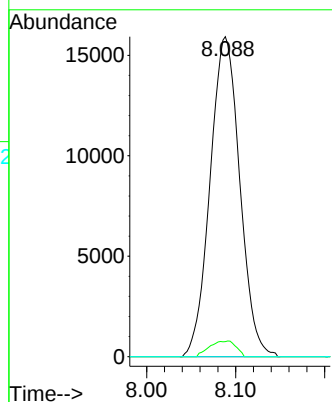
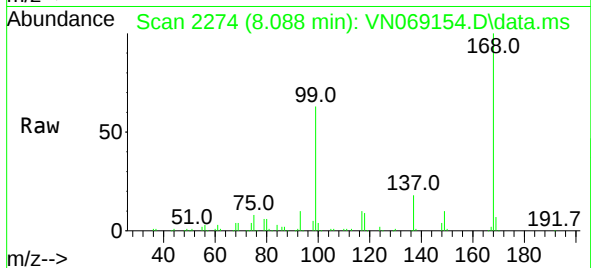




#38  
Carbon Tetrachloride  
Concen: 6.433 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.121 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

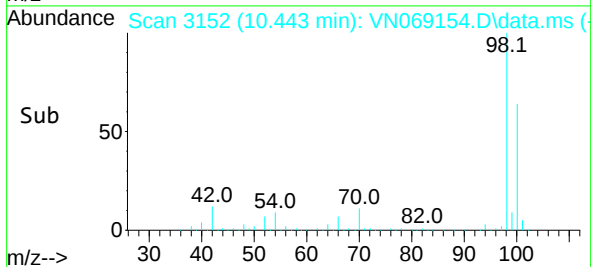
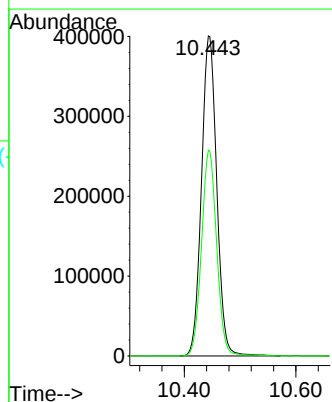
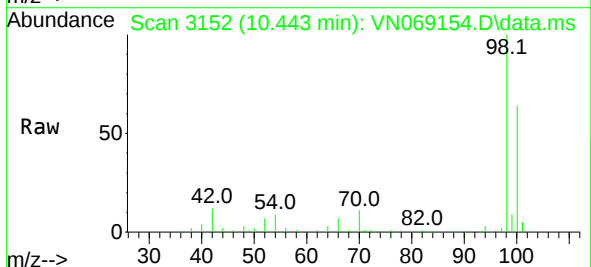
Instrument :  
MSVOA\_N  
ClientSampleId :

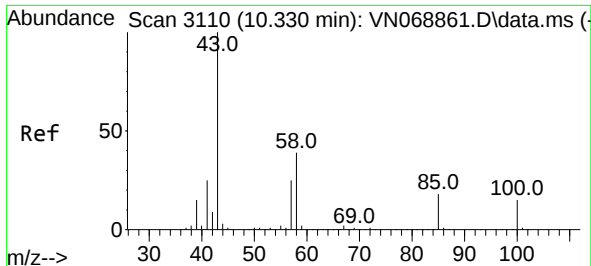
Tgt Ion:117 Resp: 36944  
Ion Ratio Lower Upper  
117 100  
119 4.7 76.9 115.3#  
121 0.0 24.6 37.0#



#50  
Toluene-d8  
Concen: 53.430 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.000 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

Tgt Ion: 98 Resp: 761399  
Ion Ratio Lower Upper  
98 100  
100 63.8 51.5 77.3

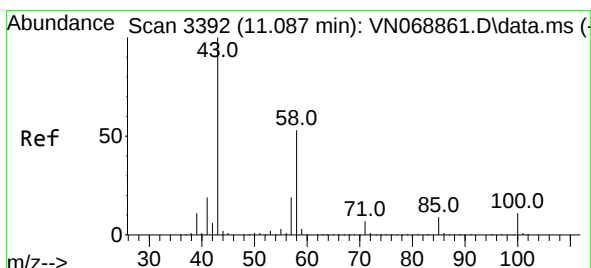
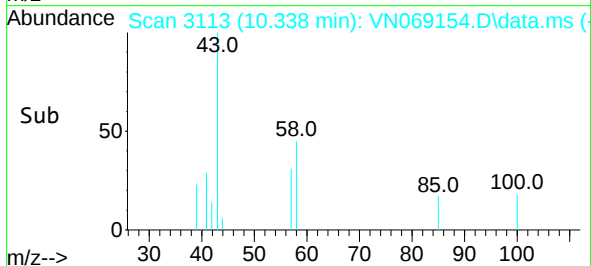
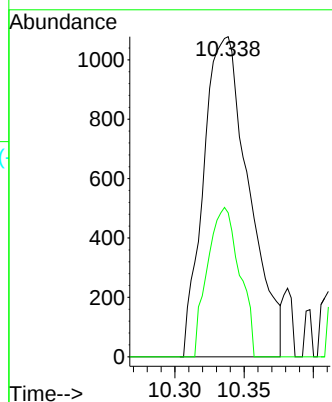
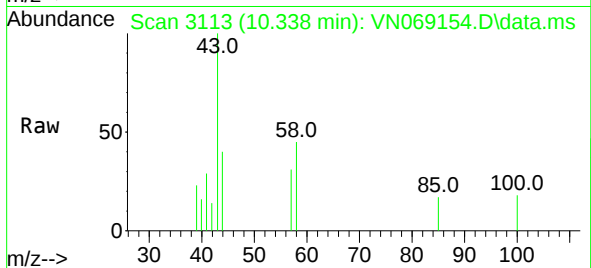




#51  
4-Methyl-2-Pentanone  
Concen: 0.445 ug/l  
RT: 10.338 min Scan# 3113  
Delta R.T. 0.008 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

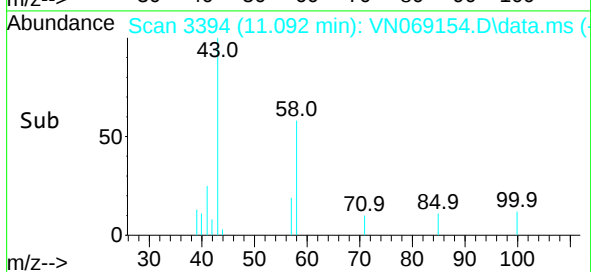
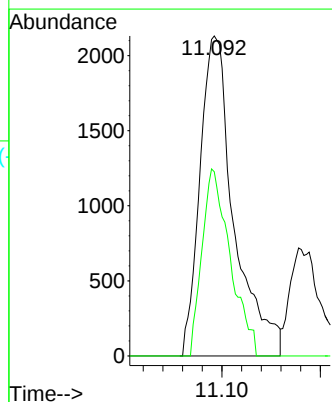
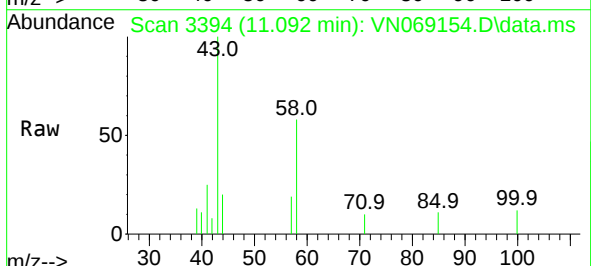
Instrument :  
MSVOA\_N  
ClientSampled :

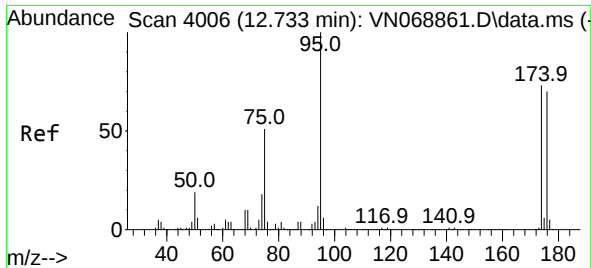
Tgt Ion: 43 Resp: 2457  
Ion Ratio Lower Upper  
43 100  
58 32.9 31.0 46.4



#59  
2-Hexanone  
Concen: 1.293 ug/l  
RT: 11.092 min Scan# 3394  
Delta R.T. 0.005 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

Tgt Ion: 43 Resp: 5122  
Ion Ratio Lower Upper  
43 100  
58 48.2 26.9 80.7

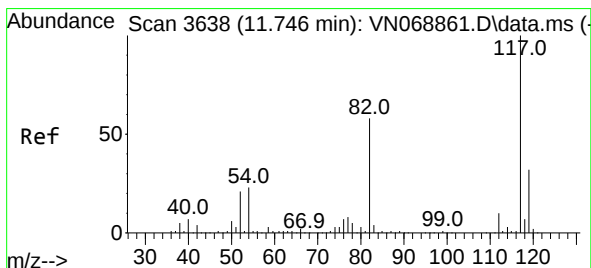
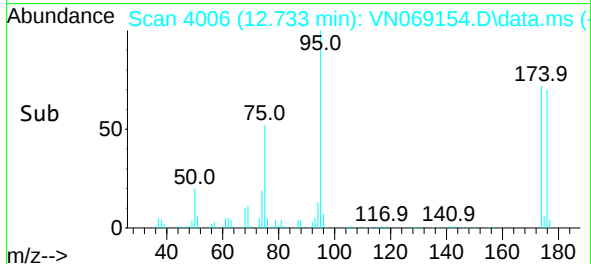
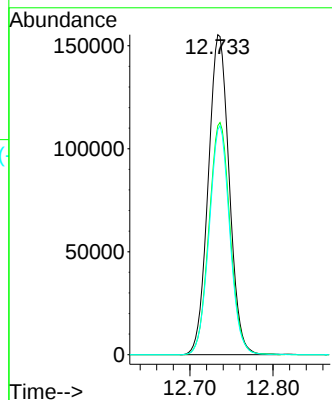
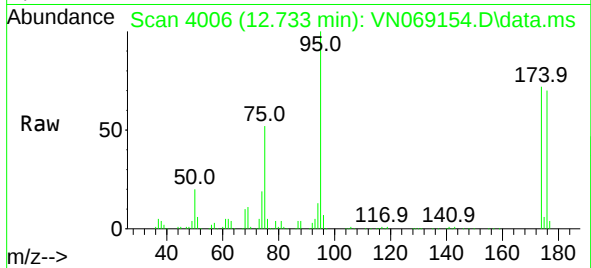




#62  
4-Bromofluorobenzene  
Concen: 50.607 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.000 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

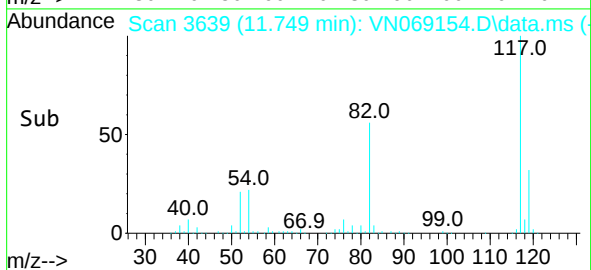
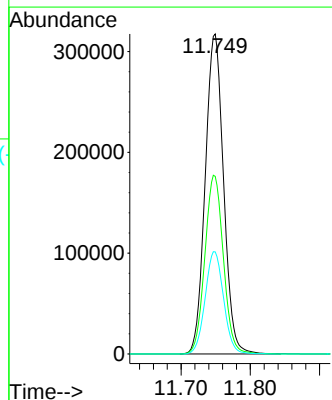
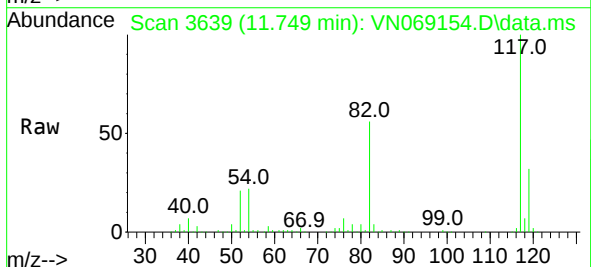
Instrument :  
MSVOA\_N  
ClientSampleId :

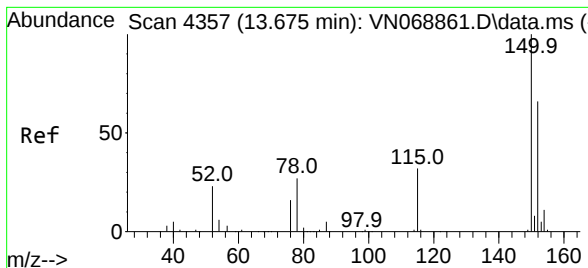
Tgt Ion: 95 Resp: 272087  
Ion Ratio Lower Upper  
95 100  
174 73.0 0.0 144.8  
176 70.1 0.0 140.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.749 min Scan# 3639  
Delta R.T. 0.003 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

Tgt Ion: 117 Resp: 584564  
Ion Ratio Lower Upper  
117 100  
82 55.5 46.4 69.6  
119 31.9 26.0 39.0

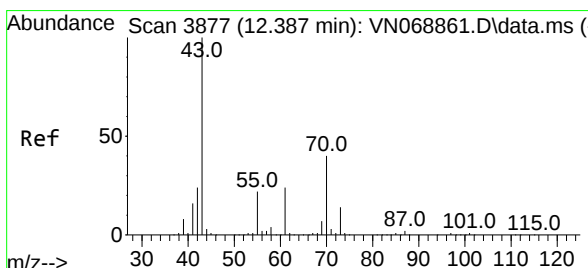
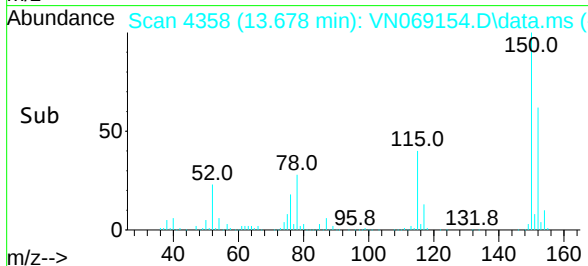
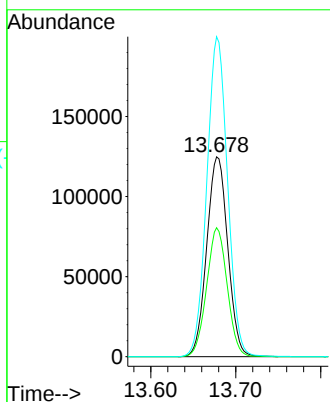
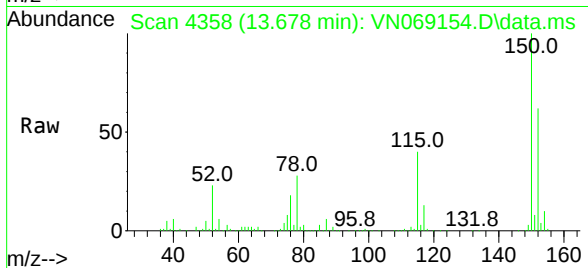




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.678 min Scan# 4358  
 Delta R.T. 0.003 min  
 Lab File: VN069154.D  
 Acq: 25 Oct 2021 16:20

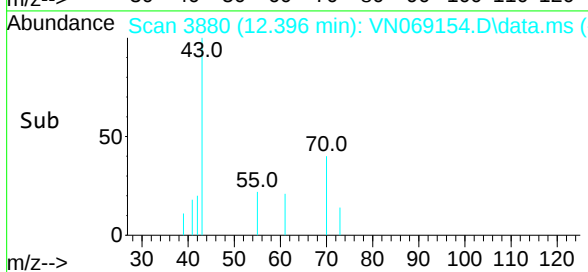
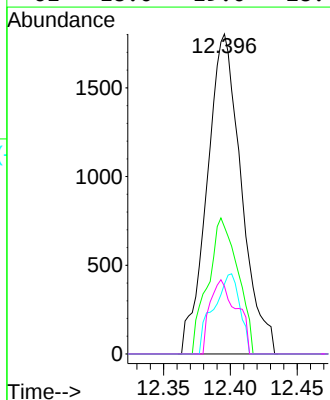
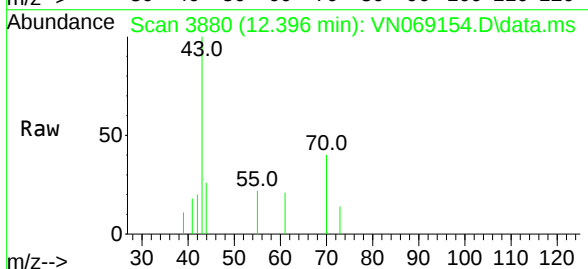
Instrument :  
 MSVOA\_N  
 ClientSampled :

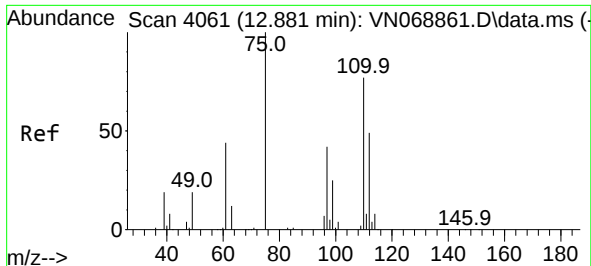
Tgt Ion:152 Resp: 214843  
 Ion Ratio Lower Upper  
 152 100  
 115 63.1 31.4 94.3  
 150 157.7 0.0 351.0



#74  
 N-ethyl acetate  
 Concen: 0.474 ug/l  
 RT: 12.396 min Scan# 3880  
 Delta R.T. 0.008 min  
 Lab File: VN069154.D  
 Acq: 25 Oct 2021 16:20

Tgt Ion: 43 Resp: 3212  
 Ion Ratio Lower Upper  
 43 100  
 70 37.1 32.2 48.2  
 55 19.3 18.0 27.0  
 61 18.0 19.0 28.4#

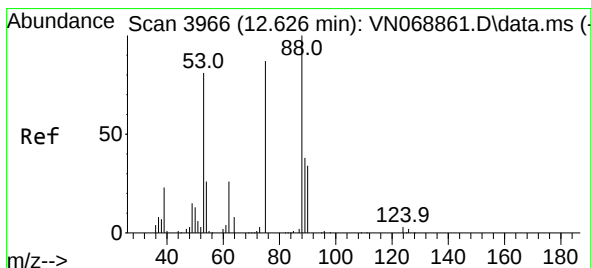
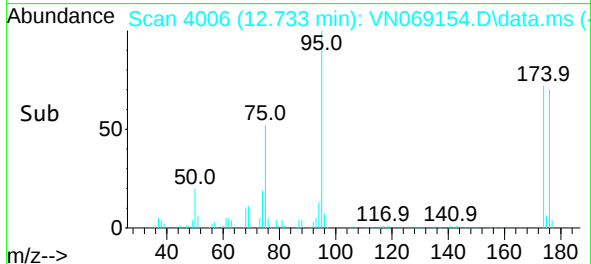
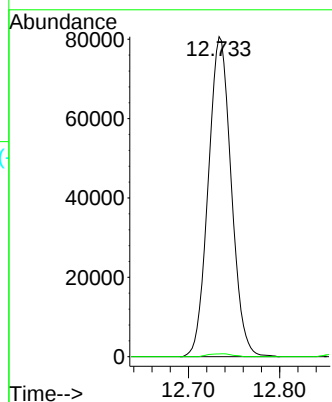
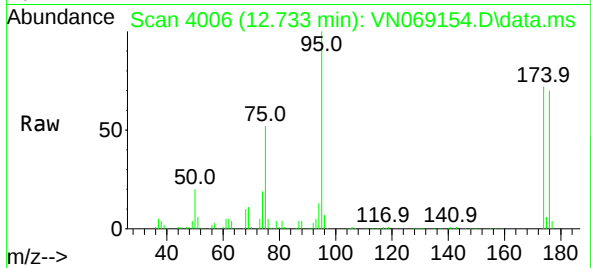




#76  
1,2,3-Trichloropropane  
Concen: 30.861 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. -0.147 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

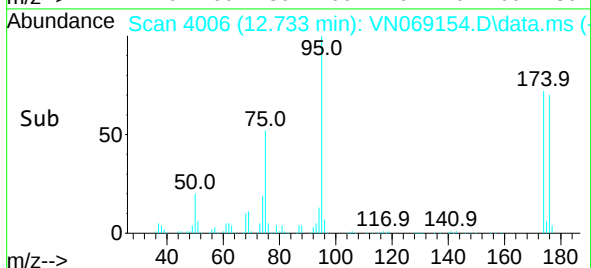
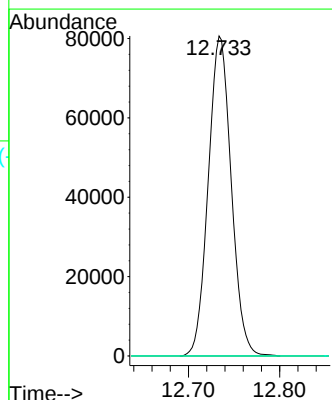
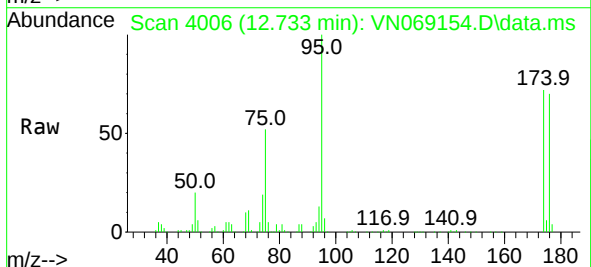
Instrument :  
MSVOA\_N  
ClientSampled :

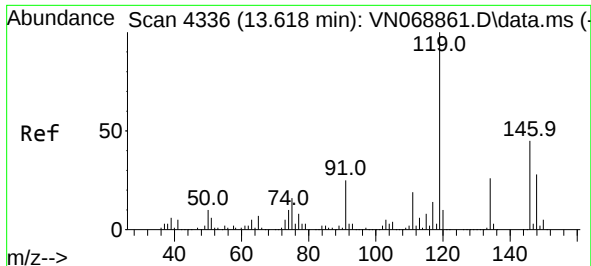
Tgt Ion: 75 Resp: 141075  
Ion Ratio Lower Upper  
75 100  
77 0.9 96.2 288.4#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 73.834 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.107 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

Tgt Ion: 75 Resp: 141075  
Ion Ratio Lower Upper  
75 100  
53 0.0 75.4 113.2#  
89 0.0 36.9 55.3#





#87

1,3-Dichlorobenzene

Concen: 0.239 ug/l

RT: 13.621 min Scan# 4337

Delta R.T. 0.003 min

Lab File: VN069154.D

Acq: 25 Oct 2021 16:20

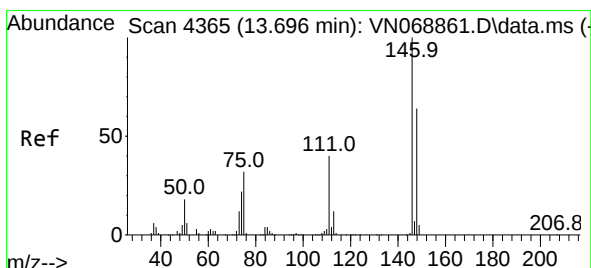
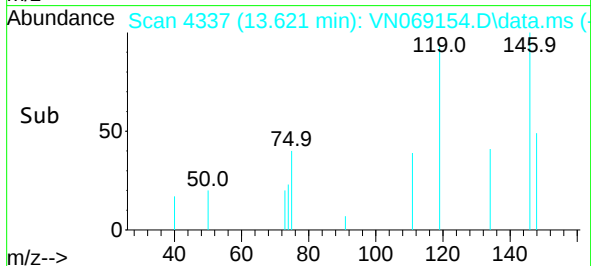
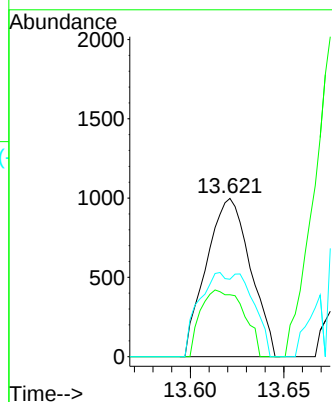
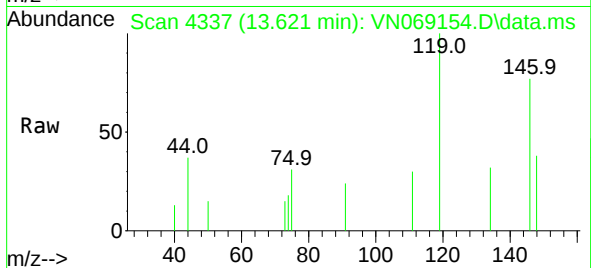
Tgt Ion:146 Resp: 1636

Ion Ratio Lower Upper

146 100

111 41.0 21.4 64.2

148 37.5 32.0 96.2



#88

1,4-Dichlorobenzene

Concen: 0.241 ug/l

RT: 13.621 min Scan# 4337

Delta R.T. -0.075 min

Lab File: VN069154.D

Acq: 25 Oct 2021 16:20

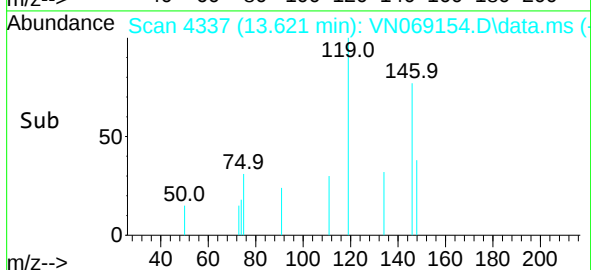
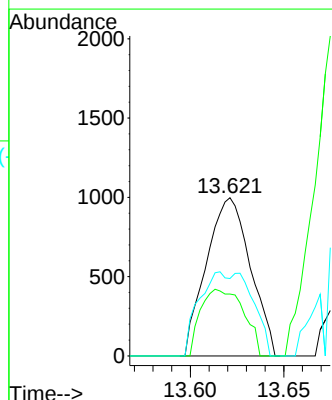
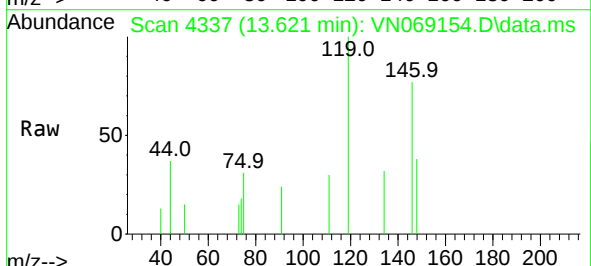
Tgt Ion:146 Resp: 1636

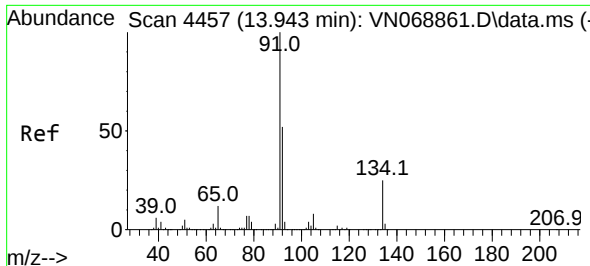
Ion Ratio Lower Upper

146 100

111 41.0 20.6 61.8

148 37.5 32.1 96.5

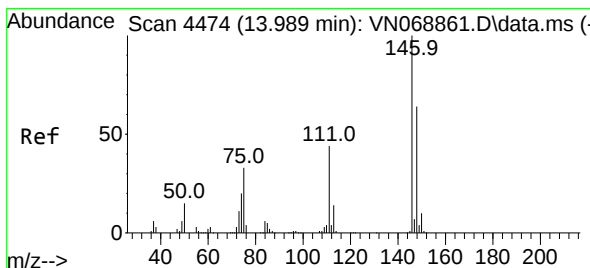
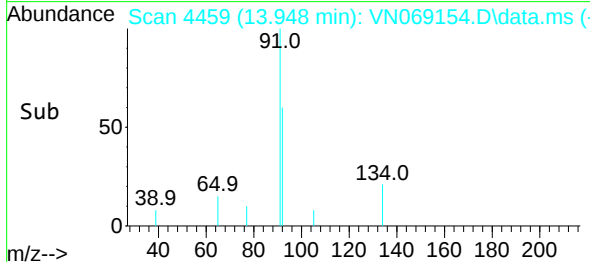
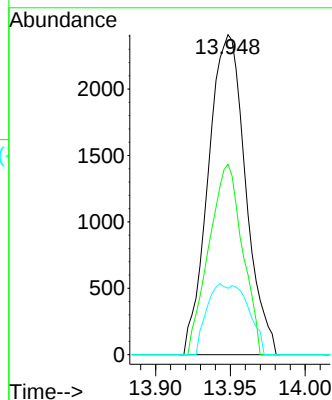
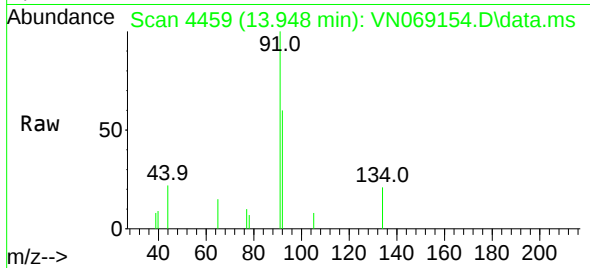




#89  
n-Butylbenzene  
Concen: 0.348 ug/l  
RT: 13.948 min Scan# 4459  
Delta R.T. 0.005 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

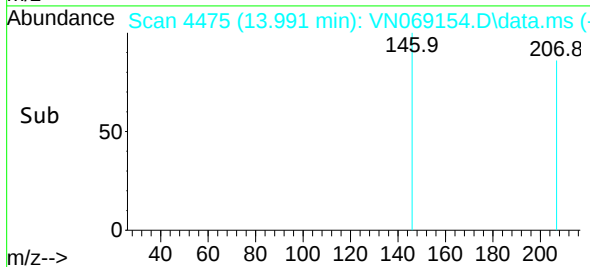
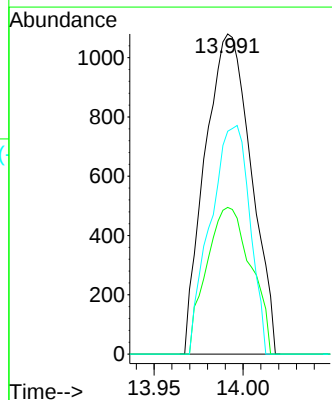
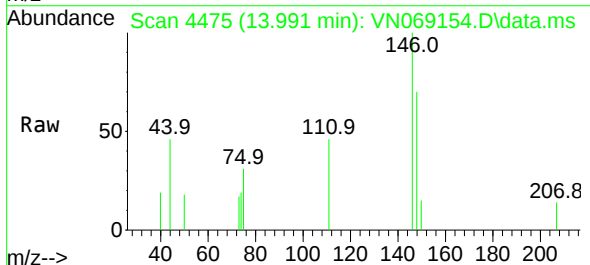
Instrument :  
MSVOA\_N  
ClientSampled :

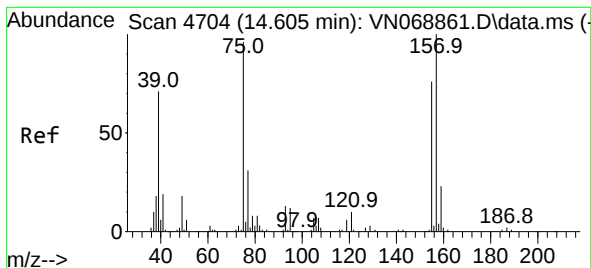
Tgt Ion: 91 Resp: 4178  
Ion Ratio Lower Upper  
91 100  
92 53.4 26.0 78.0  
134 12.9 12.5 37.5



#91  
1,2-Dichlorobenzene  
Concen: 0.292 ug/l  
RT: 13.991 min Scan# 4475  
Delta R.T. 0.003 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

Tgt Ion: 146 Resp: 1943  
Ion Ratio Lower Upper  
146 100  
111 44.1 22.0 66.0  
148 61.0 32.1 96.5





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.382 ug/l

RT: 14.611 min Scan# 4706

Delta R.T. 0.005 min

Lab File: VN069154.D

Acq: 25 Oct 2021 16:20

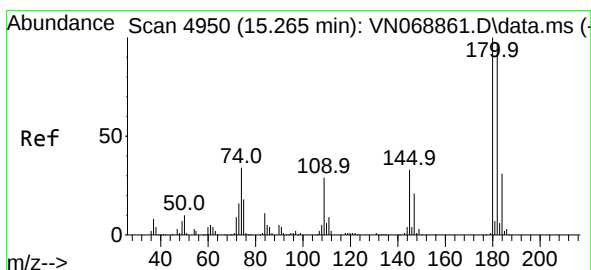
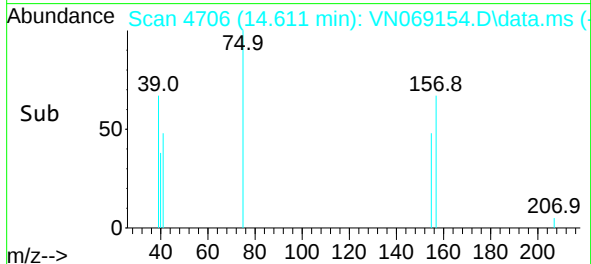
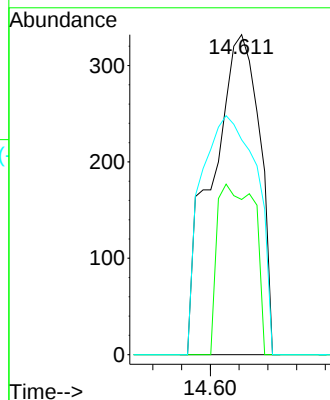
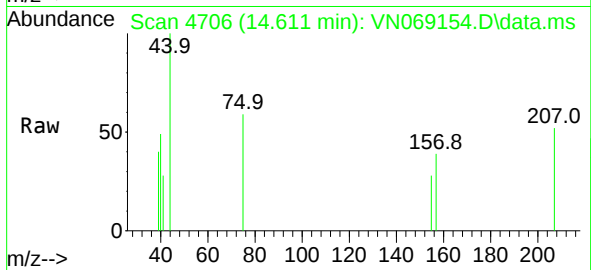
Tgt Ion: 75 Resp: 381

Ion Ratio Lower Upper

75 100

155 41.7 38.8 116.4

157 87.7 50.2 150.6



#93

1,2,4-Trichlorobenzene

Concen: 3.653 ug/l

RT: 15.268 min Scan# 4951

Delta R.T. 0.003 min

Lab File: VN069154.D

Acq: 25 Oct 2021 16:20

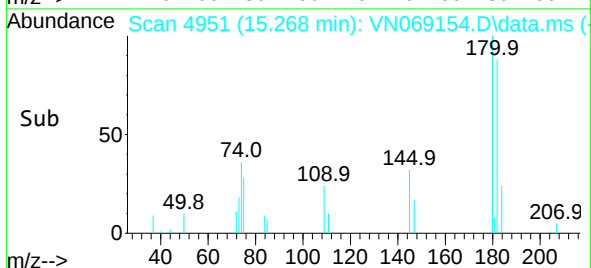
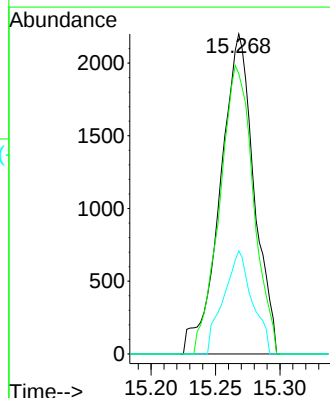
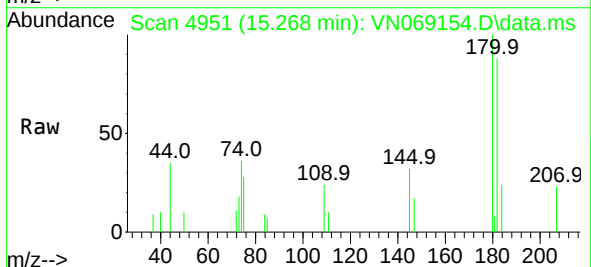
Tgt Ion: 180 Resp: 4004

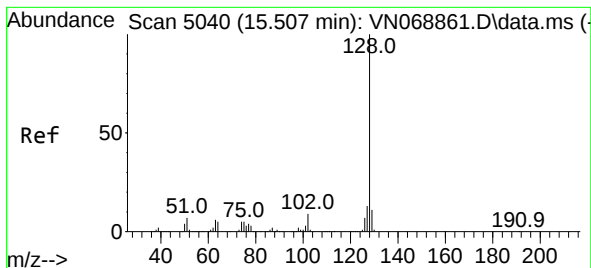
Ion Ratio Lower Upper

180 100

182 89.8 47.9 143.7

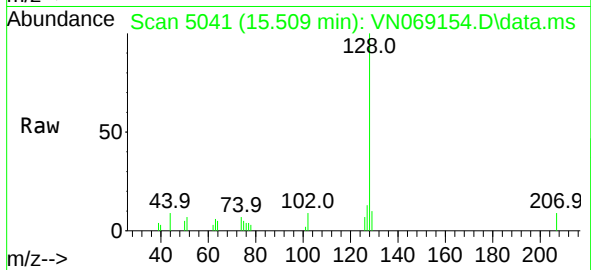
145 27.3 16.4 49.2



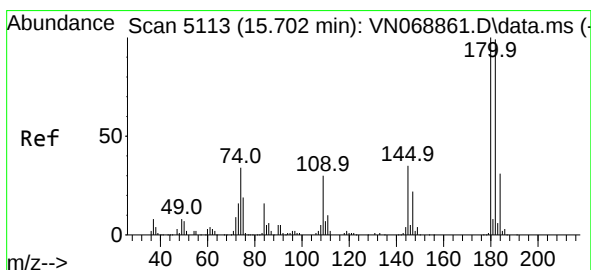
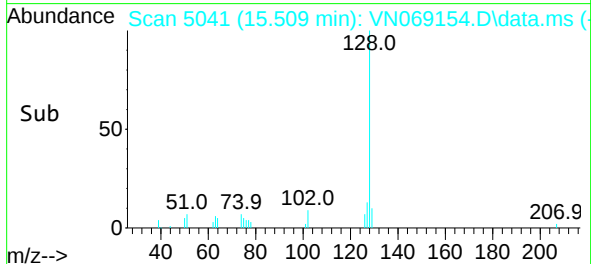
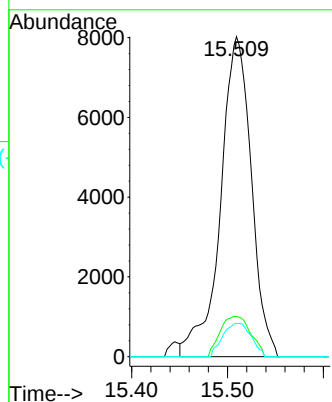


#95  
Naphthalene  
Concen: 5.469 ug/l  
RT: 15.509 min Scan# 5041  
Delta R.T. 0.002 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

Instrument :  
MSVOA\_N  
ClientSampled :



Tgt Ion:128 Resp: 17888  
Ion Ratio Lower Upper  
128 100  
127 12.5 10.5 15.7  
129 9.6 8.9 13.3



#96  
1,2,3-Trichlorobenzene  
Concen: 3.872 ug/l  
RT: 15.705 min Scan# 5114  
Delta R.T. 0.003 min  
Lab File: VN069154.D  
Acq: 25 Oct 2021 16:20

Tgt Ion:180 Resp: 4910  
Ion Ratio Lower Upper  
180 100  
182 91.0 48.1 144.3  
145 30.3 17.4 52.2

