

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111821\  
 Data File : VN069559.D  
 Acq On : 18 Nov 2021 17:51  
 Operator : JC/MD  
 Sample : M4739-06  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 19 03:19:51 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110921W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 09 18:18:22 2021  
 Response via : Initial Calibration

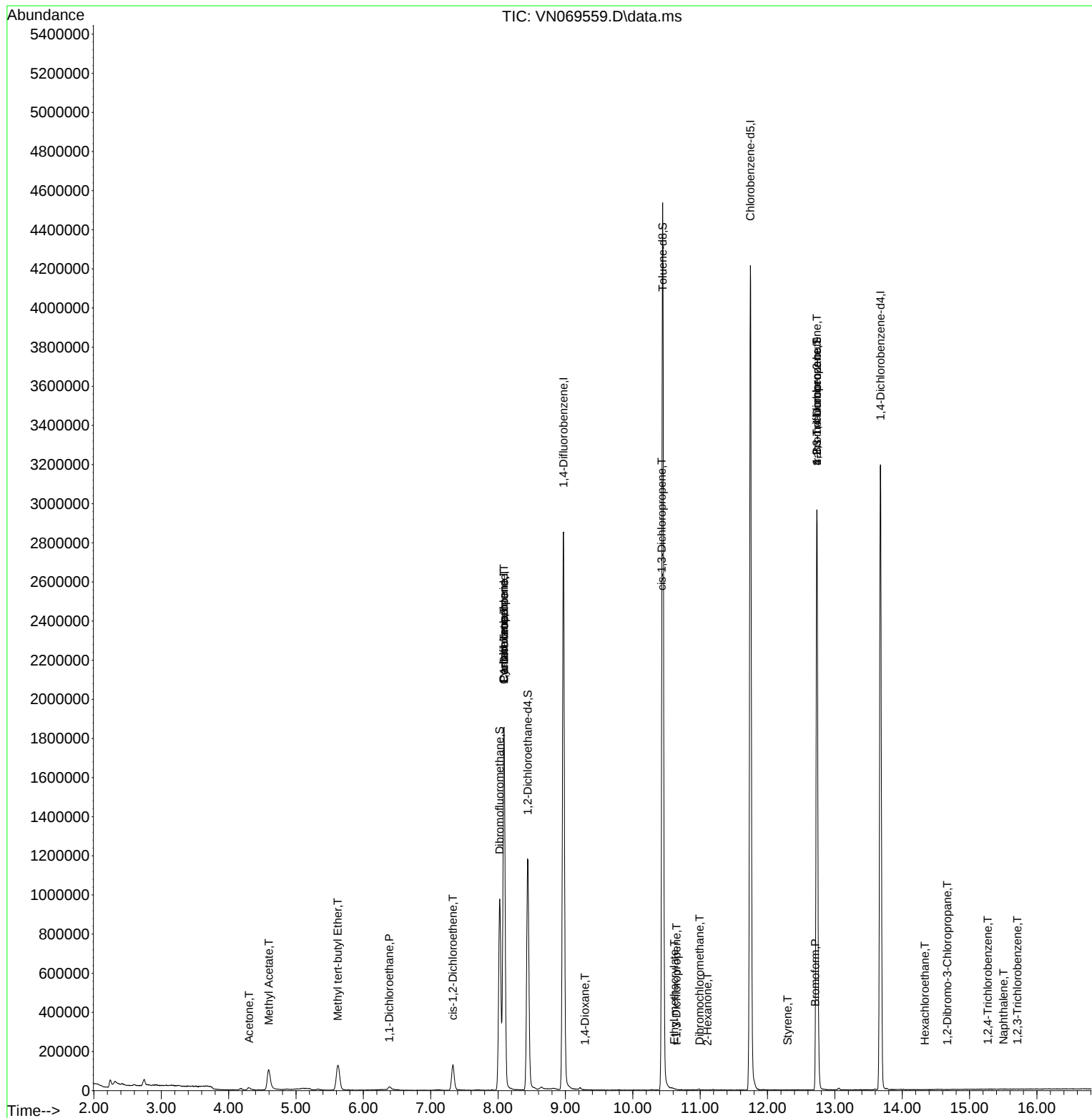
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.088  | 168   | 1370817  | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.971  | 114   | 2410233  | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.746 | 117   | 2373261  | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.677 | 152   | 858546   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.440  | 65    | 1022886  | 51.463    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery  | = 102.920% |          |
| 35) Dibromofluoromethane      | 8.024  | 113   | 700799   | 48.480    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery  | = 96.960%  |          |
| 50) Toluene-d8                | 10.443 | 98    | 3052232  | 53.686    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery  | = 107.380% |          |
| 62) 4-Bromofluorobenzene      | 12.733 | 95    | 1039923  | 49.791    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery  | = 99.580%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 13) Acrolein                  | 4.052  | 56    | 713      | Below Cal |            | 97       |
| 16) Acetone                   | 4.301  | 43    | 20532    | 1.915     | ug/l       | 99       |
| 18) Methyl Acetate            | 4.596  | 43    | 54306    | 1.558     | ug/l #     | 51       |
| 19) Methyl tert-butyl Ether   | 5.621  | 73    | 195096   | 4.149     | ug/l       | 94       |
| 24) 1,1-Dichloroethane        | 6.383  | 63    | 10425    | 0.387     | ug/l       | 98       |
| 27) cis-1,2-Dichloroethene    | 7.329  | 96    | 62931    | 4.091     | ug/l       | 96       |
| 31) Cyclohexane               | 8.086  | 56    | 34698    | 1.278     | ug/l #     | 20       |
| 36) 1,1-Dichloropropene       | 8.086  | 75    | 117279   | 5.783     | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 8.088  | 117   | 143405   | 7.324     | ug/l #     | 16       |
| 49) 1,4-Dioxane               | 9.290  | 88    | 192      | 39.508    | ug/l #     | 33       |
| 53) t-1,3-Dichloropropene     | 10.650 | 75    | 25       | 2.638     | ug/l #     | 1        |
| 54) cis-1,3-Dichloropropene   | 10.430 | 75    | 211      | 1.740     | ug/l #     | 1        |
| 56) Ethyl methacrylate        | 10.617 | 69    | 91       | 2.056     | ug/l #     | 1        |
| 59) 2-Hexanone                | 11.111 | 43    | 539      | 7.963     | ug/l       | 64       |
| 60) Dibromochloromethane      | 10.993 | 129   | 373      | 2.438     | ug/l #     | 11       |
| 70) Styrene                   | 12.299 | 104   | 50       | 1.521     | ug/l #     | 26       |
| 71) Bromoform                 | 12.707 | 173   | 175      | 3.440     | ug/l #     | 29       |
| 76) 1,2,3-Trichloropropane    | 12.733 | 75    | 583482   | 29.449    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.733 | 75    | 583482   | 83.301    | ug/l #     | 5        |
| 90) Hexachloroethane          | 14.337 | 117   | 54       | 2.167     | ug/l #     | 6        |
| 92) 1,2-Dibromo-3-Chloropr... | 14.667 | 75    | 25       | 1.802     | ug/l #     | 1        |
| 93) 1,2,4-Trichlorobenzene    | 15.271 | 180   | 124      | 3.122     | ug/l #     | 69       |
| 95) Naphthalene               | 15.504 | 128   | 612      | 4.466     | ug/l #     | 74       |
| 96) 1,2,3-Trichlorobenzene    | 15.708 | 180   | 25       | 3.171     | ug/l #     | 12       |
| -----                         |        |       |          |           |            |          |

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

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Quant Title : SW846 8260  
QLast Update : Tue Nov 09 18:18:22 2021  
Response via : Initial Calibration

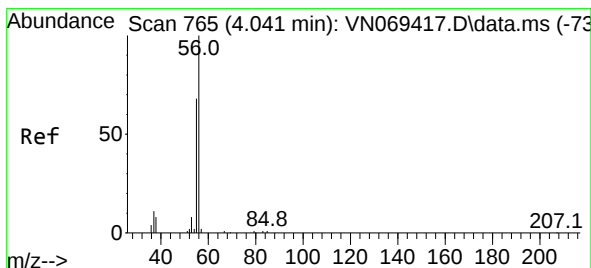
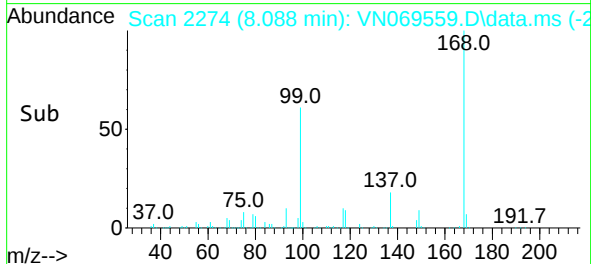
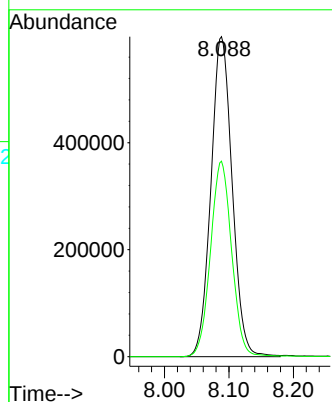
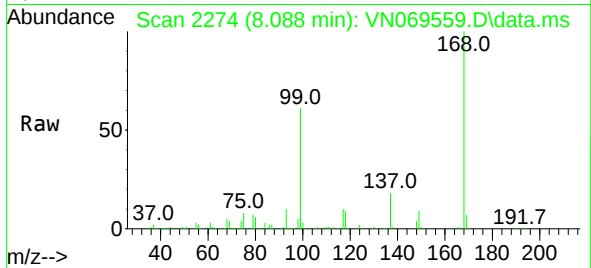




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 21  
Delta R.T. 0.002 min  
Lab File: VN069559.D  
Acq: 18 Nov 2021 17:51

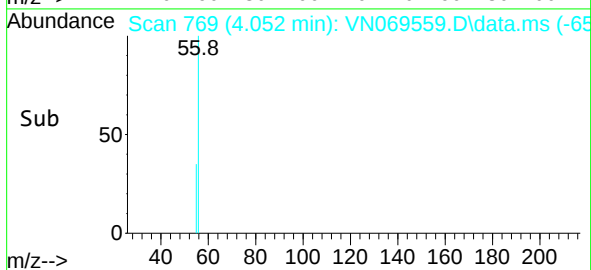
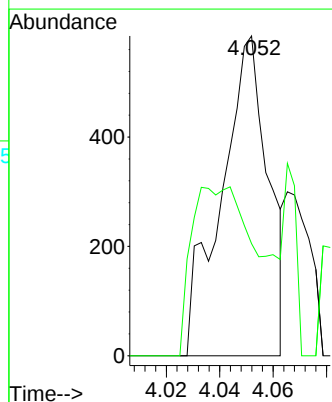
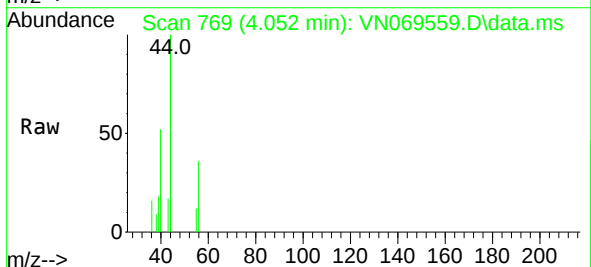
Instrument :  
MSVOA\_N  
ClientSampleId :

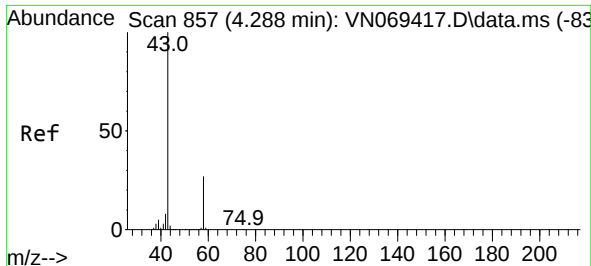
Tgt Ion:168 Resp: 1370817  
Ion Ratio Lower Upper  
168 100  
99 61.1 41.3 61.9



#13  
Acrolein  
Concen: Below Cal  
RT: 4.052 min Scan# 769  
Delta R.T. 0.011 min  
Lab File: VN069559.D  
Acq: 18 Nov 2021 17:51

Tgt Ion: 56 Resp: 713  
Ion Ratio Lower Upper  
56 100  
55 68.4 56.6 85.0

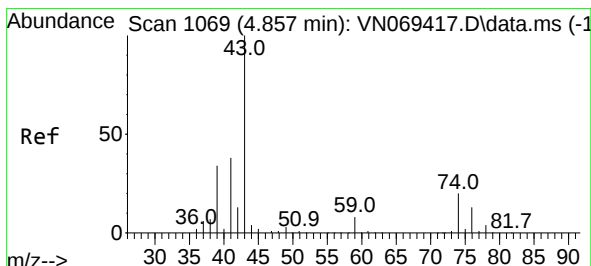
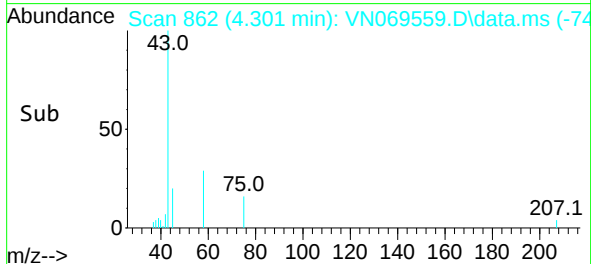
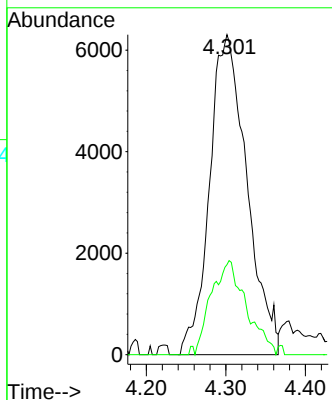
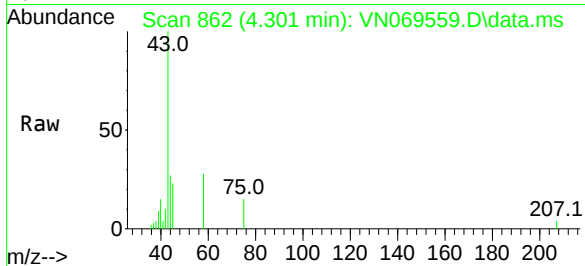




#16  
Acetone  
Concen: 1.915 ug/l  
RT: 4.301 min Scan# 80  
Delta R.T. 0.013 min  
Lab File: VN069559.D  
Acq: 18 Nov 2021 17:51

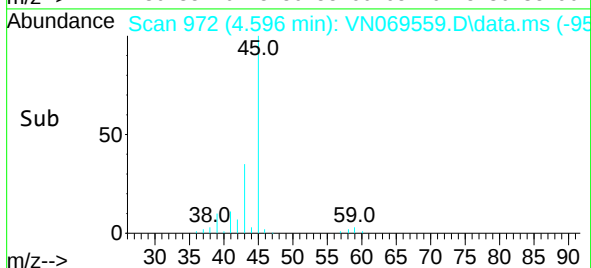
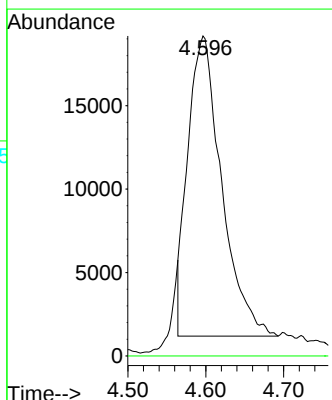
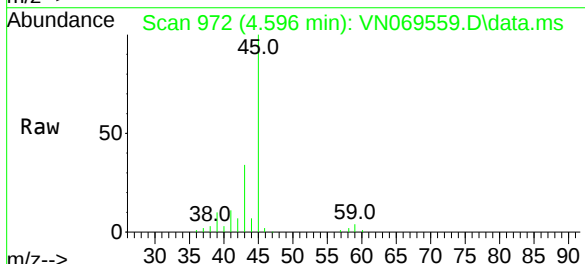
Instrument :  
MSVOA\_N  
ClientSampleId :

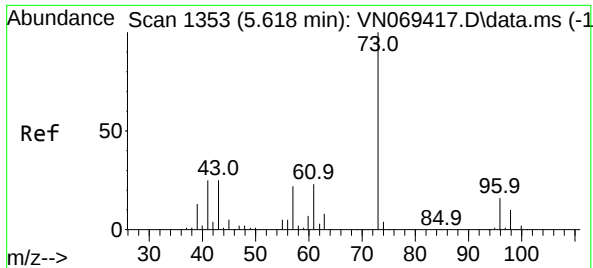
Tgt Ion: 43 Resp: 20532  
Ion Ratio Lower Upper  
43 100  
58 28.1 23.1 34.7



#18  
Methyl Acetate  
Concen: 1.558 ug/l  
RT: 4.596 min Scan# 972  
Delta R.T. -0.261 min  
Lab File: VN069559.D  
Acq: 18 Nov 2021 17:51

Tgt Ion: 43 Resp: 54306  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.4 29.2#





#19

Methyl tert-butyl Ether

Concen: 4.149 ug/l

RT: 5.621 min Scan# 1

Delta R.T. 0.003 min

Lab File: VN069559.D

Acq: 18 Nov 2021 17:51

Instrument :

MSVOA\_N

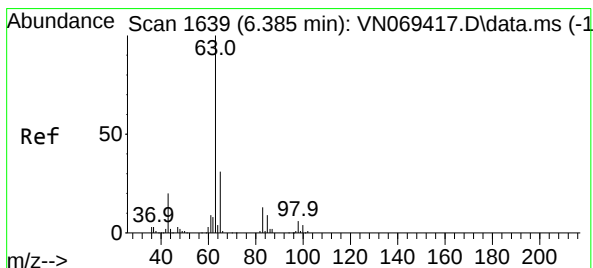
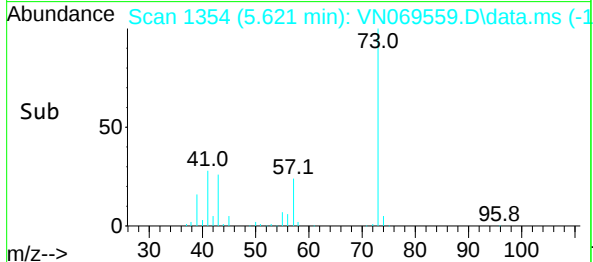
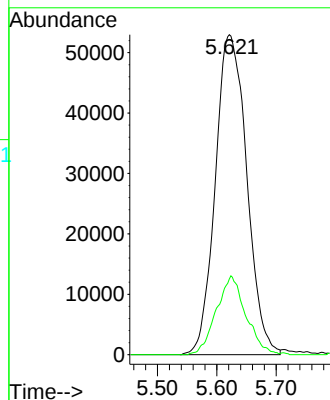
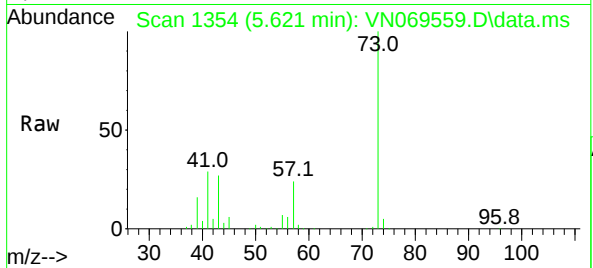
ClientSampleId :

Tgt Ion: 73 Resp: 195096

Ion Ratio Lower Upper

73 100

57 23.7 16.8 25.2



#24

1,1-Dichloroethane

Concen: 0.387 ug/l

RT: 6.383 min Scan# 1638

Delta R.T. -0.002 min

Lab File: VN069559.D

Acq: 18 Nov 2021 17:51

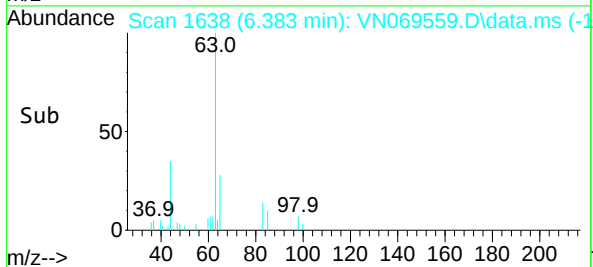
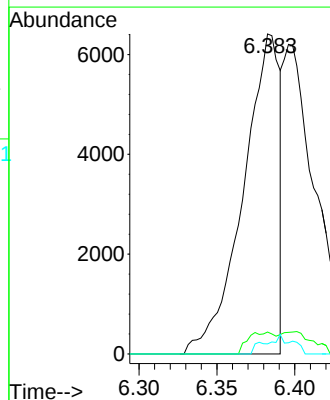
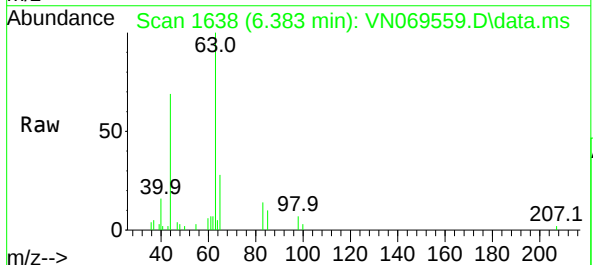
Tgt Ion: 63 Resp: 10425

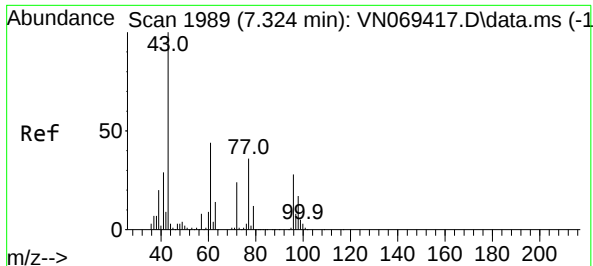
Ion Ratio Lower Upper

63 100

98 6.9 3.3 9.9

100 3.2 2.1 6.5





#27

cis-1,2-Dichloroethene

Concen: 4.091 ug/l

RT: 7.329 min Scan# 1989

Delta R.T. 0.005 min

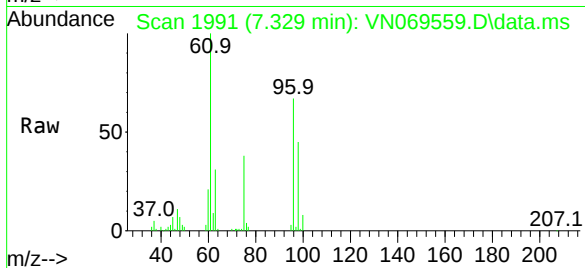
Lab File: VN069559.D

Acq: 18 Nov 2021 17:51

Instrument :

MSVOA\_N

ClientSampleId :



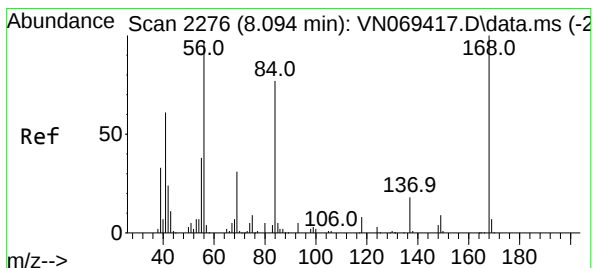
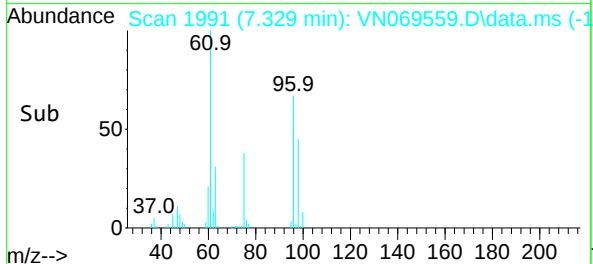
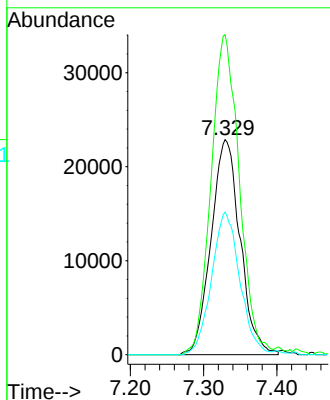
Tgt Ion: 96 Resp: 62931

Ion Ratio Lower Upper

96 100

61 144.9 0.0 275.0

98 64.6 0.0 129.6



#31

Cyclohexane

Concen: 1.278 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.008 min

Lab File: VN069559.D

Acq: 18 Nov 2021 17:51

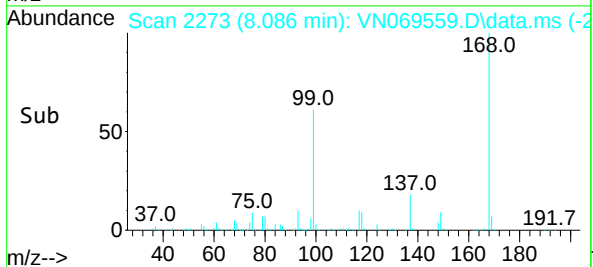
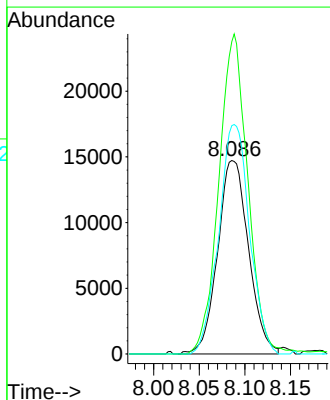
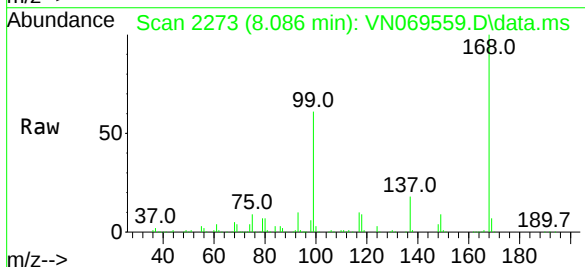
Tgt Ion: 56 Resp: 34698

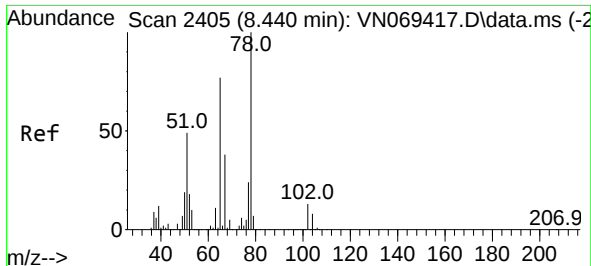
Ion Ratio Lower Upper

56 100

69 161.4 27.1 40.7#

84 118.0 73.4 110.0#

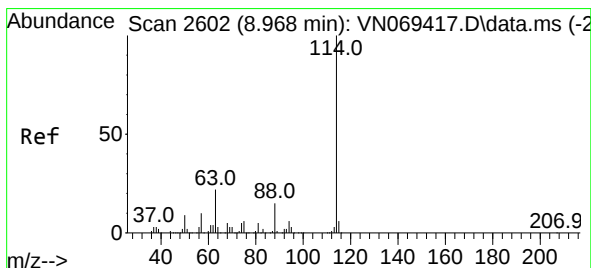
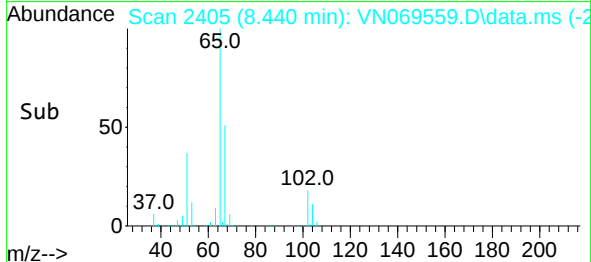
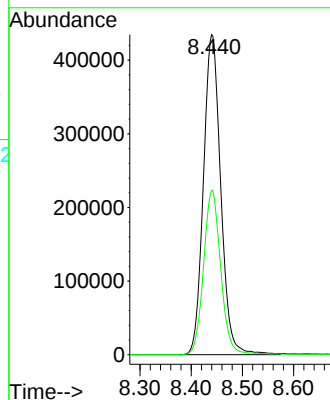
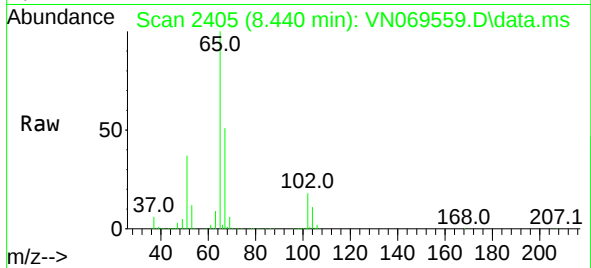




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.463 ug/l  
 RT: 8.440 min Scan# 2405  
 Delta R.T. -0.000 min  
 Lab File: VN069559.D  
 Acq: 18 Nov 2021 17:51

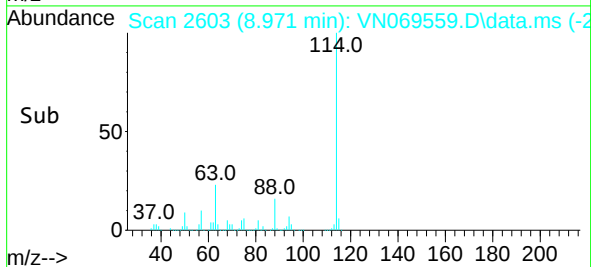
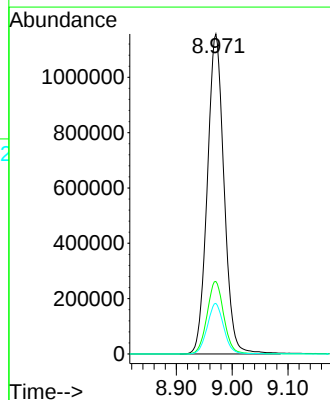
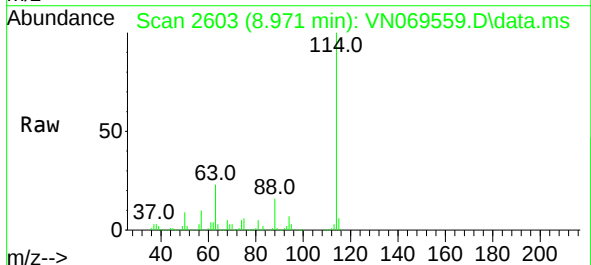
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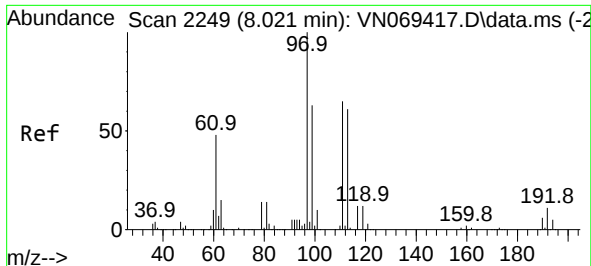
Tgt Ion: 65 Resp: 1022886  
 Ion Ratio Lower Upper  
 65 100  
 67 50.7 0.0 103.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.971 min Scan# 2603  
 Delta R.T. 0.003 min  
 Lab File: VN069559.D  
 Acq: 18 Nov 2021 17:51

Tgt Ion: 114 Resp: 2410233  
 Ion Ratio Lower Upper  
 114 100  
 63 22.6 0.0 37.8  
 88 15.8 0.0 27.4

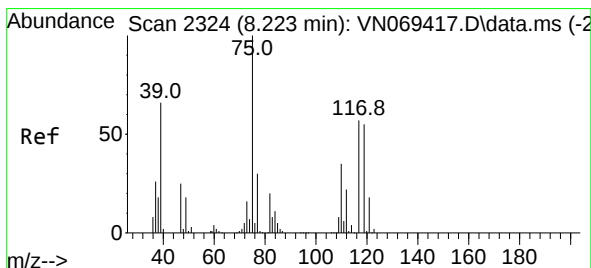
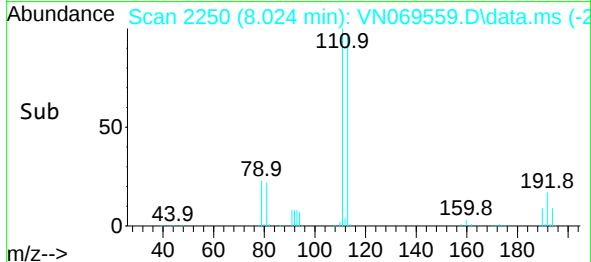
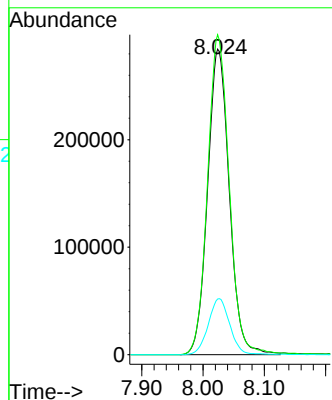
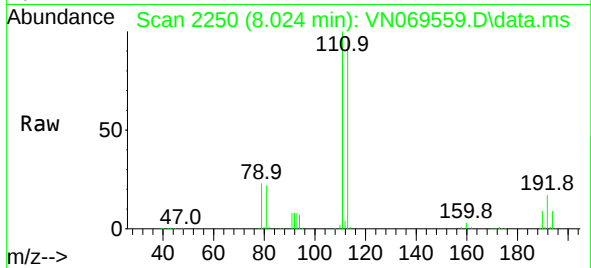




#35  
Dibromofluoromethane  
Concen: 48.480 ug/l  
RT: 8.024 min Scan# 211  
Delta R.T. 0.003 min  
Lab File: VN069559.D  
Acq: 18 Nov 2021 17:51

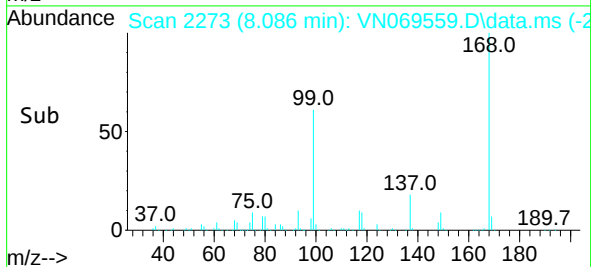
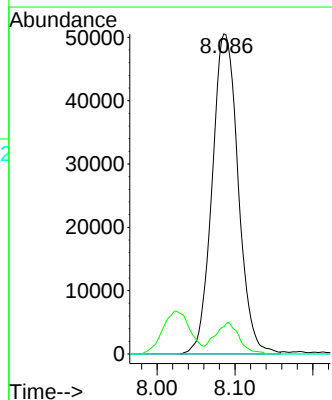
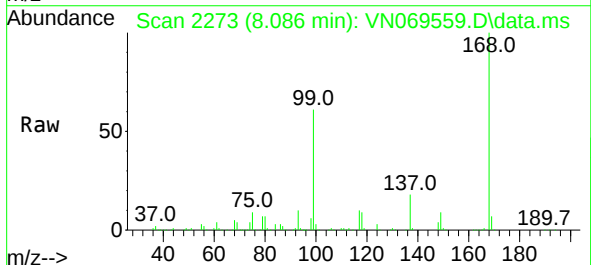
Instrument :  
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ClientSampleId :

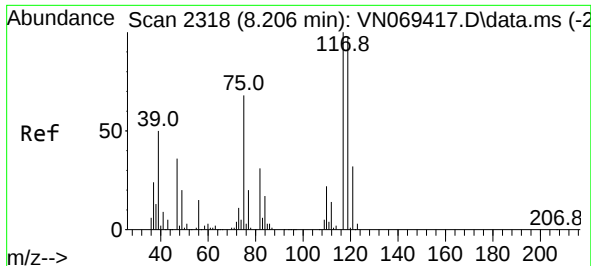
Tgt Ion:113 Resp: 700799  
Ion Ratio Lower Upper  
113 100  
111 104.2 82.2 123.2  
192 18.2 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 5.783 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.137 min  
Lab File: VN069559.D  
Acq: 18 Nov 2021 17:51

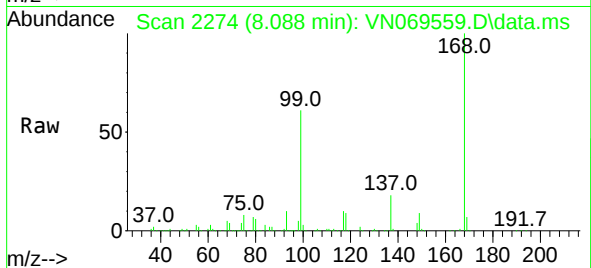
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Ion Ratio Lower Upper  
75 100  
110 9.2 18.4 55.2#  
77 0.0 24.4 36.6#



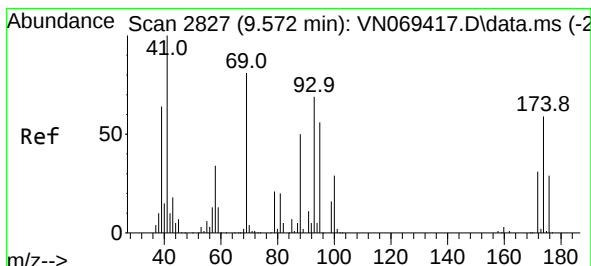
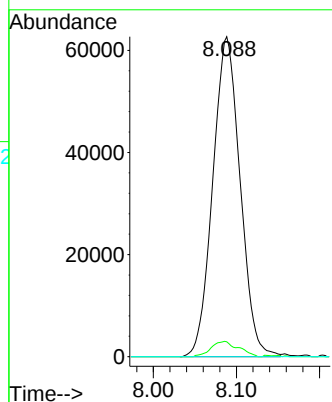
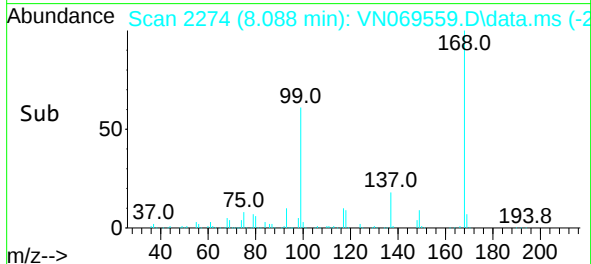


#38  
Carbon Tetrachloride  
Concen: 7.324 ug/l  
RT: 8.088 min Scan# 21  
Delta R.T. -0.118 min  
Lab File: VN069559.D  
Acq: 18 Nov 2021 17:51

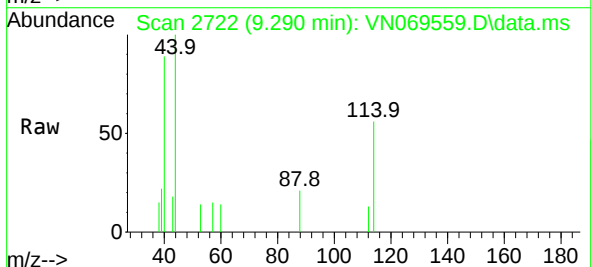
Instrument :  
MSVOA\_N  
ClientSampleId :



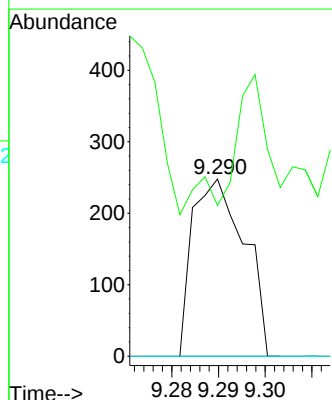
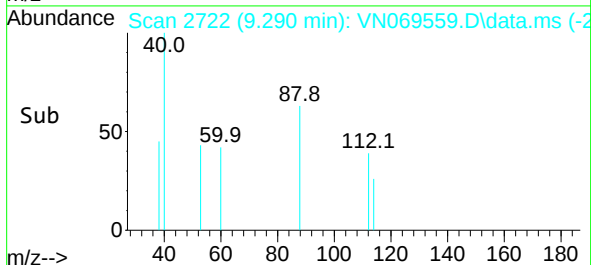
Tgt Ion:117 Resp: 143405  
Ion Ratio Lower Upper  
117 100  
119 4.7 76.1 114.1#  
121 0.0 24.2 36.2#

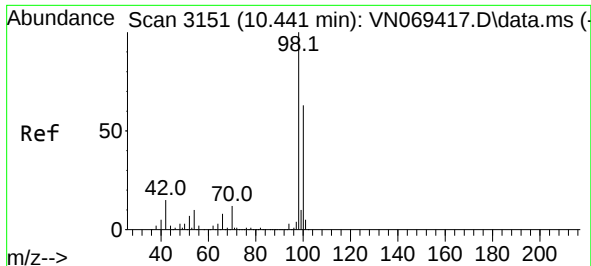


#49  
1,4-Dioxane  
Concen: 39.508 ug/l  
RT: 9.290 min Scan# 2722  
Delta R.T. -0.282 min  
Lab File: VN069559.D  
Acq: 18 Nov 2021 17:51



Tgt Ion: 88 Resp: 192  
Ion Ratio Lower Upper  
88 100  
43 48.4 23.4 35.2#  
58 0.0 50.6 75.8#

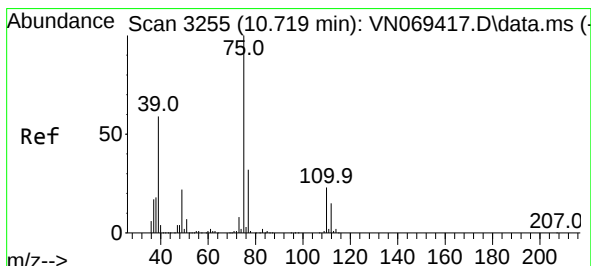
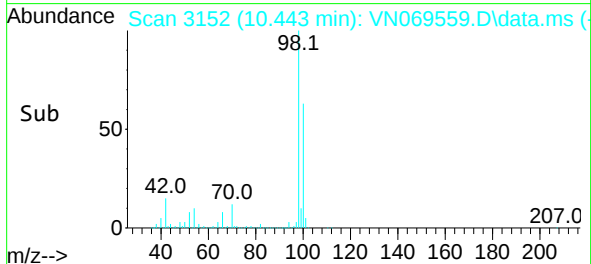
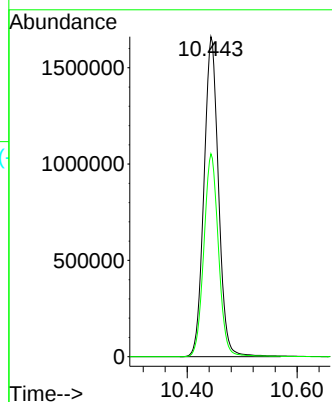
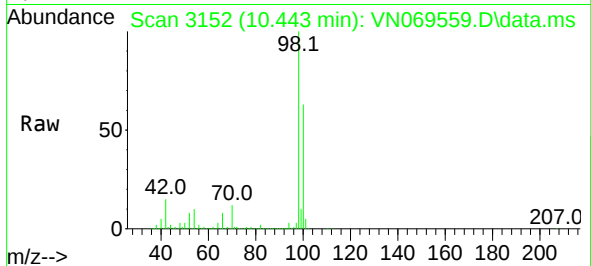




#50  
Toluene-d8  
Concen: 53.686 ug/l  
RT: 10.443 min Scan# 3151  
Delta R.T. 0.002 min  
Lab File: VN069559.D  
Acq: 18 Nov 2021 17:51

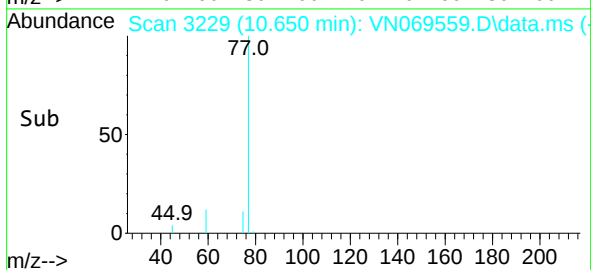
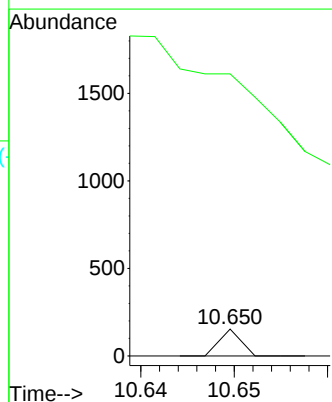
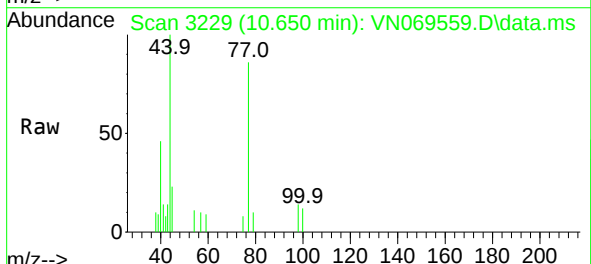
Instrument :  
MSVOA\_N  
ClientSampleId :

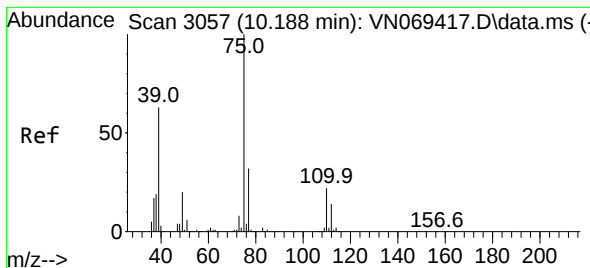
Tgt Ion: 98 Resp: 3052232  
Ion Ratio Lower Upper  
98 100  
100 63.7 50.4 75.6



#53  
t-1,3-Dichloropropene  
Concen: 2.638 ug/l  
RT: 10.650 min Scan# 3229  
Delta R.T. -0.069 min  
Lab File: VN069559.D  
Acq: 18 Nov 2021 17:51

Tgt Ion: 75 Resp: 25  
Ion Ratio Lower Upper  
75 100  
77 179.7 25.6 38.4#

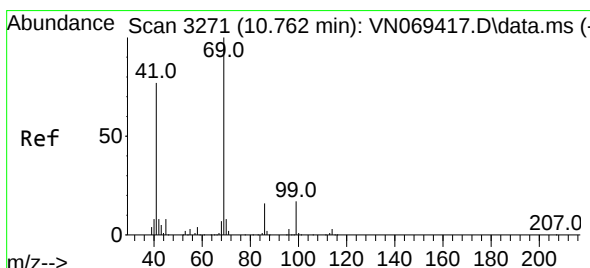
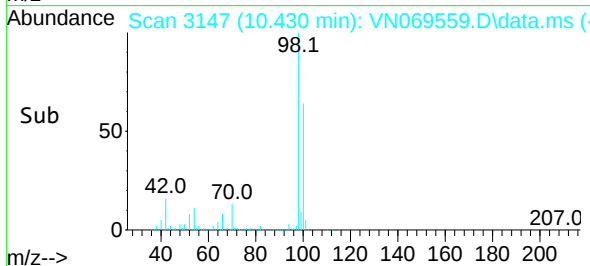
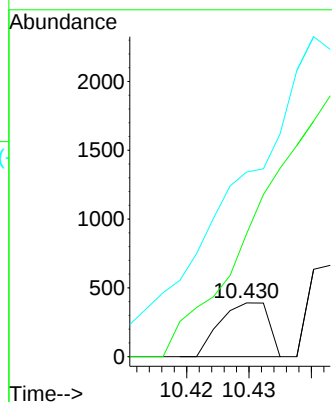
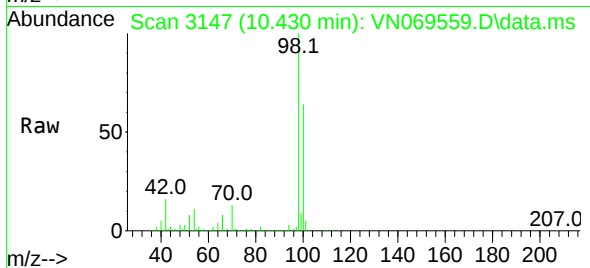




#54  
cis-1,3-Dichloropropene  
Concen: 1.740 ug/l  
RT: 10.430 min Scan# 3147  
Delta R.T. 0.242 min  
Lab File: VN069559.D  
Acq: 18 Nov 2021 17:51

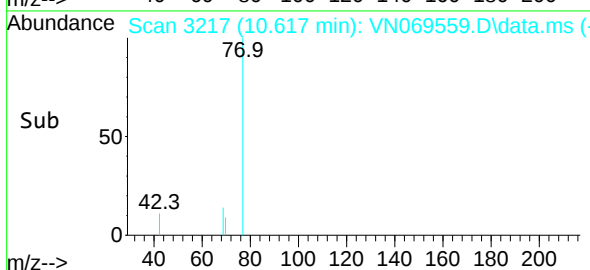
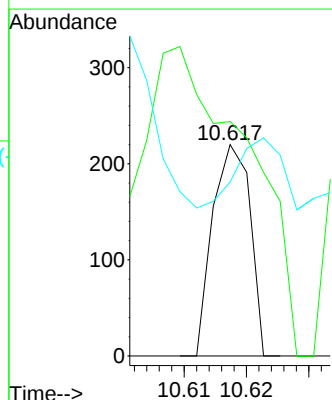
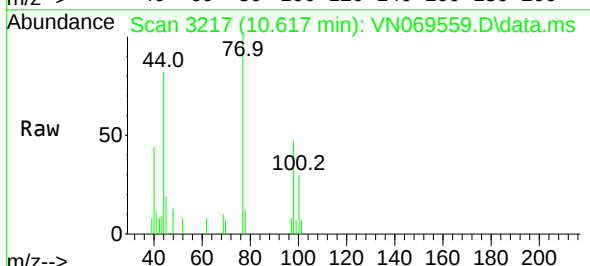
Instrument :  
MSVOA\_N  
ClientSampleId :

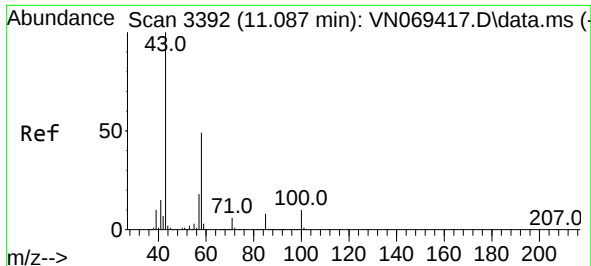
Tgt Ion: 75 Resp: 211  
Ion Ratio Lower Upper  
75 100  
77 163.2 26.4 39.6#  
39 201.5 42.5 63.7#



#56  
Ethyl methacrylate  
Concen: 2.056 ug/l  
RT: 10.617 min Scan# 3217  
Delta R.T. -0.145 min  
Lab File: VN069559.D  
Acq: 18 Nov 2021 17:51

Tgt Ion: 69 Resp: 91  
Ion Ratio Lower Upper  
69 100  
41 389.0 51.4 77.0#  
39 107.7 34.6 52.0#

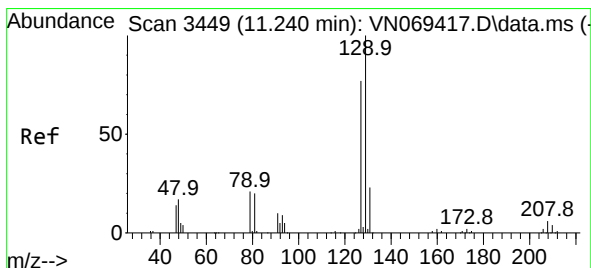
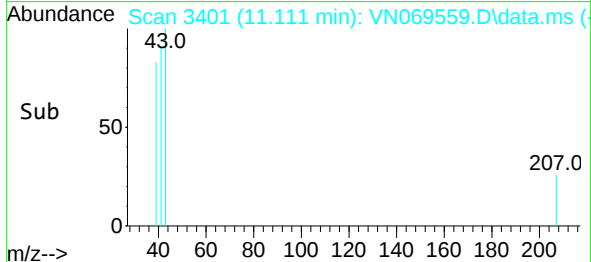
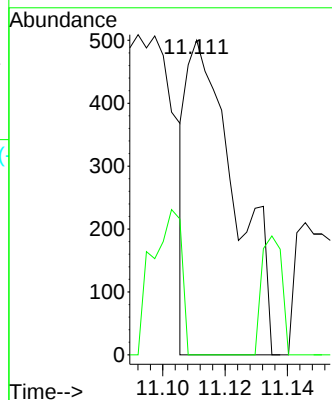
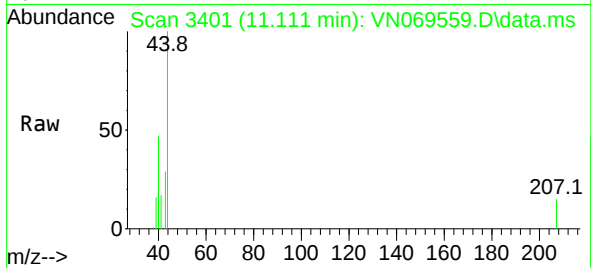




#59  
2-Hexanone  
Concen: 7.963 ug/l  
RT: 11.111 min Scan# 34  
Delta R.T. 0.024 min  
Lab File: VN069559.D  
Acq: 18 Nov 2021 17:51

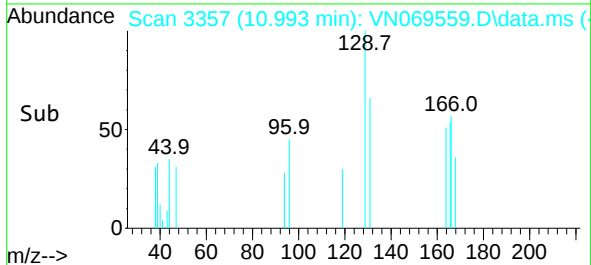
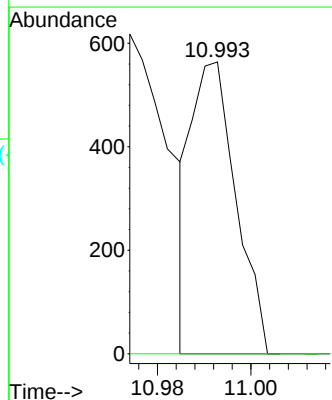
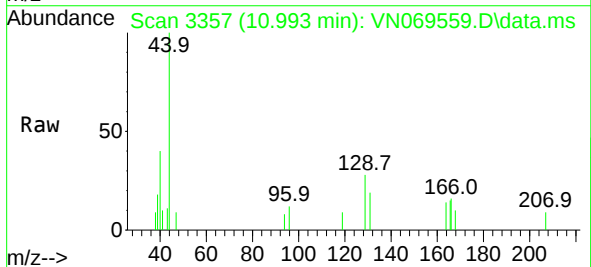
Instrument :  
MSVOA\_N  
ClientSampleId :

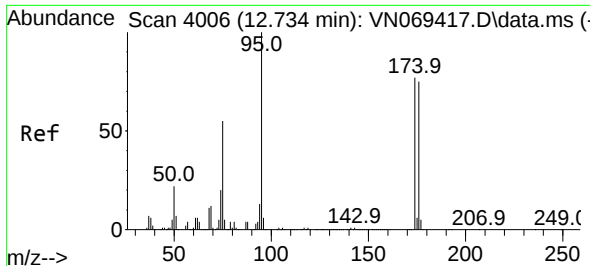
Tgt Ion: 43 Resp: 539  
Ion Ratio Lower Upper  
43 100  
58 28.2 26.9 80.7



#60  
Dibromochloromethane  
Concen: 2.438 ug/l  
RT: 10.993 min Scan# 3357  
Delta R.T. -0.247 min  
Lab File: VN069559.D  
Acq: 18 Nov 2021 17:51

Tgt Ion: 129 Resp: 373  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.6 116.0#

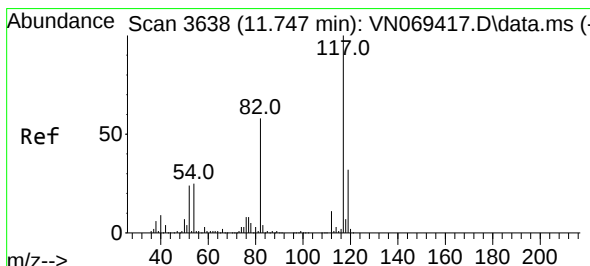
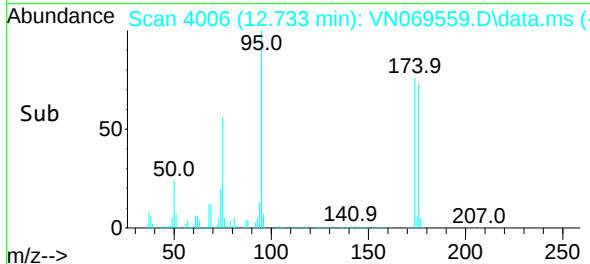
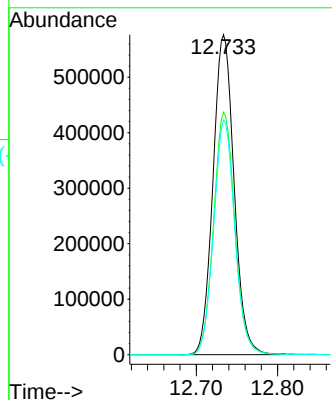
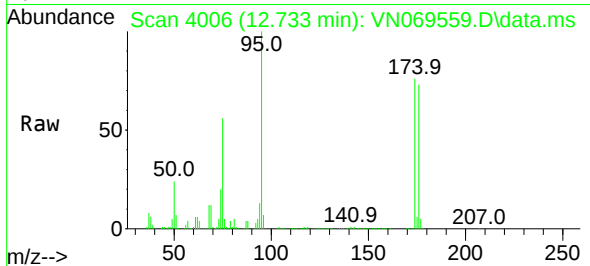




#62  
4-Bromofluorobenzene  
Concen: 49.791 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. -0.001 min  
Lab File: VN069559.D  
Acq: 18 Nov 2021 17:51

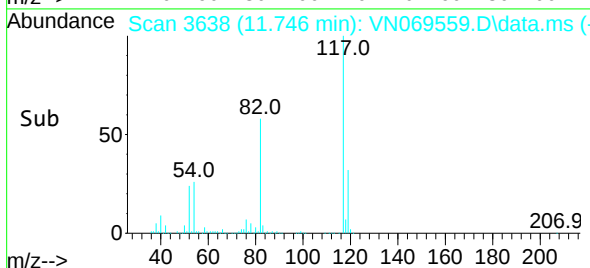
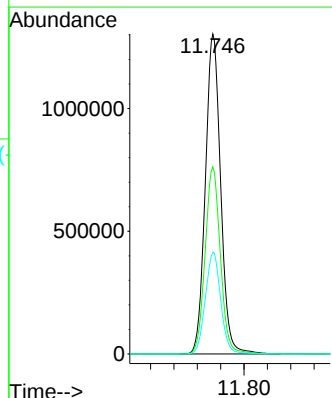
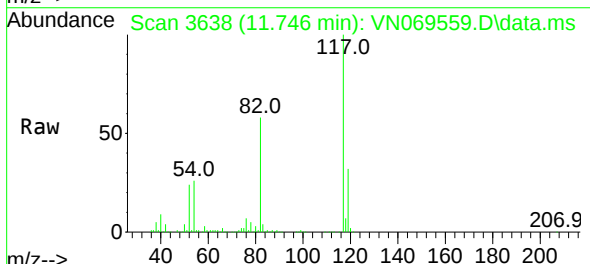
Instrument :  
MSVOA\_N  
ClientSampleId :

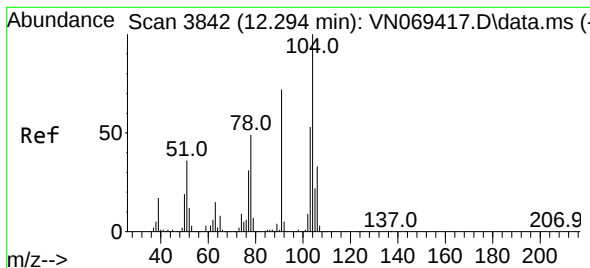
Tgt Ion: 95 Resp: 1039923  
Ion Ratio Lower Upper  
95 100  
174 76.3 0.0 187.2  
176 73.2 0.0 181.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.746 min Scan# 3638  
Delta R.T. -0.001 min  
Lab File: VN069559.D  
Acq: 18 Nov 2021 17:51

Tgt Ion: 117 Resp: 2373261  
Ion Ratio Lower Upper  
117 100  
82 58.4 42.4 63.6  
119 31.8 25.4 38.2





#70

Styrene

Concen: 1.521 ug/l

RT: 12.299 min Scan# 3844

Delta R.T. 0.005 min

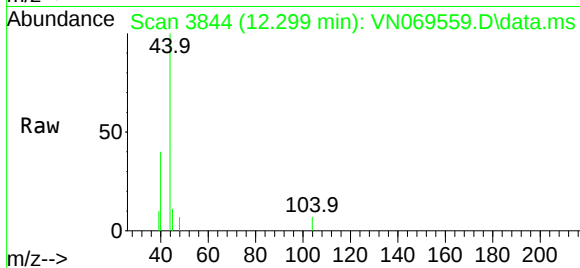
Lab File: VN069559.D

Acq: 18 Nov 2021 17:51

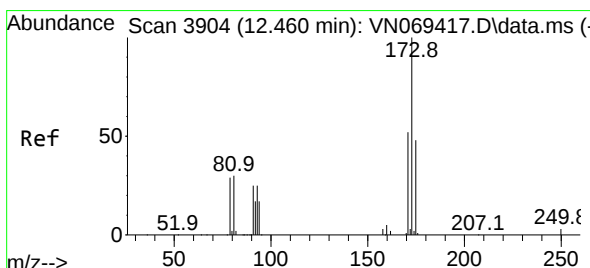
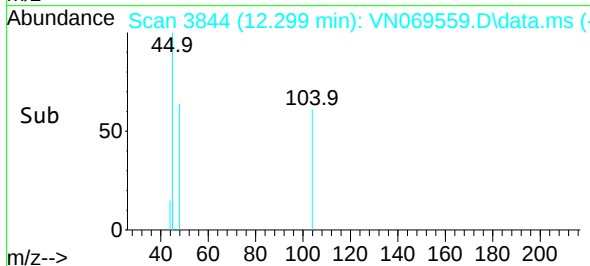
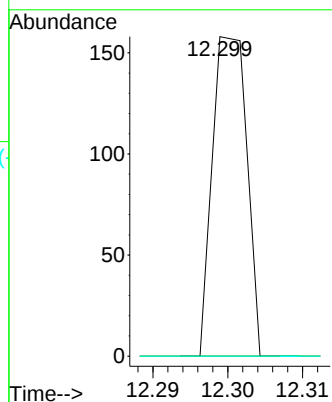
Instrument :

MSVOA\_N

ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 104   | Resp: | 50    |
| Ion Ratio | Lower | Upper |       |
| 104       | 100   |       |       |
| 78        | 0.0   | 38.7  | 58.1# |
| 103       | 0.0   | 45.0  | 67.6# |



#71

Bromoform

Concen: 3.440 ug/l

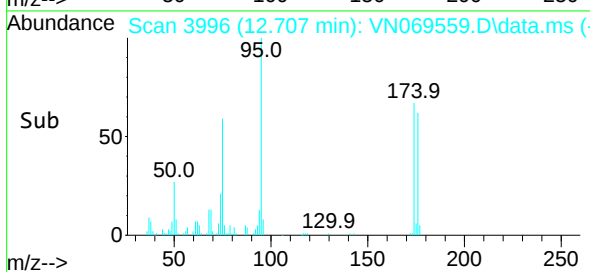
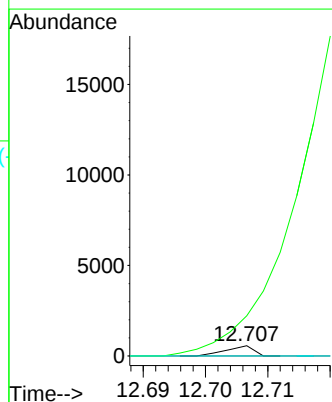
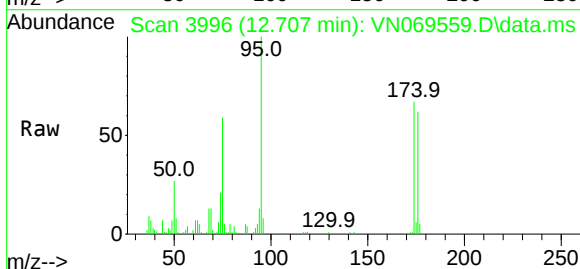
RT: 12.707 min Scan# 3996

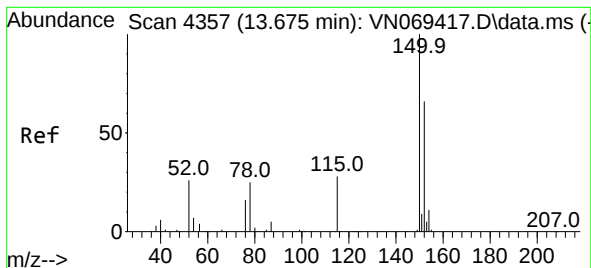
Delta R.T. 0.247 min

Lab File: VN069559.D

Acq: 18 Nov 2021 17:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 173   | Resp: | 175   |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 0.0   | 24.2  | 72.6# |
| 254       | 0.0   | 0.0   | 0.0   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.677 min Scan# 41

Delta R.T. 0.002 min

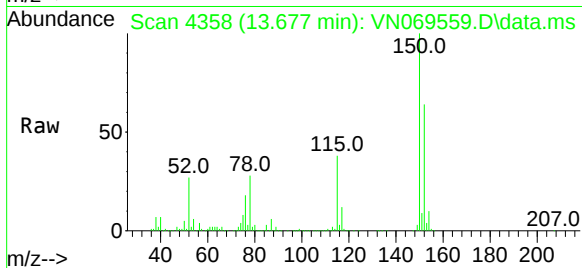
Lab File: VN069559.D

Acq: 18 Nov 2021 17:51

Instrument :

MSVOA\_N

ClientSampleId :



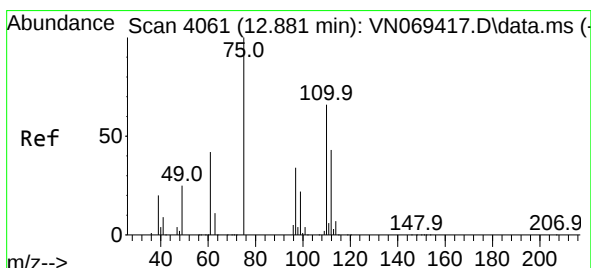
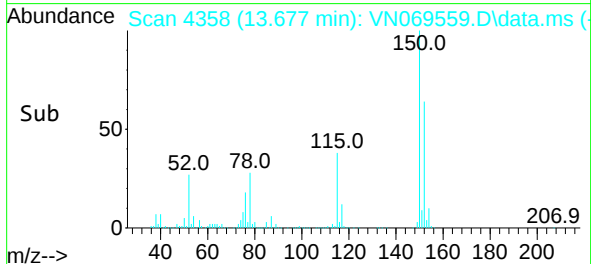
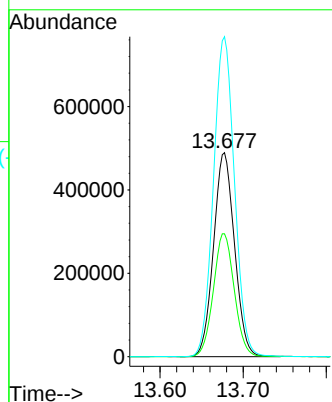
Tgt Ion:152 Resp: 858546

Ion Ratio Lower Upper

152 100

115 60.0 27.5 82.5

150 157.5 0.0 344.4



#76

1,2,3-Trichloropropane

Concen: 29.449 ug/l

RT: 12.733 min Scan# 4006

Delta R.T. -0.148 min

Lab File: VN069559.D

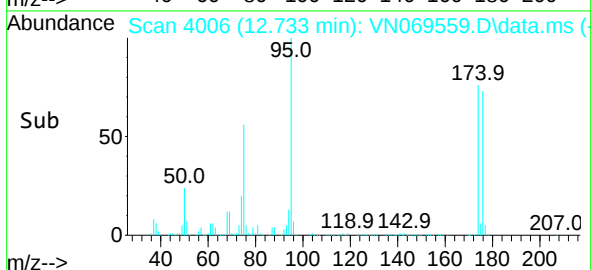
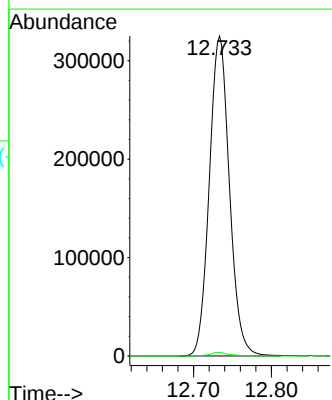
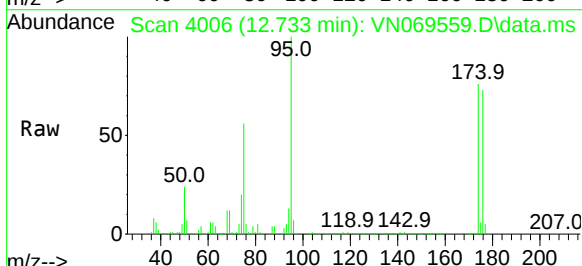
Acq: 18 Nov 2021 17:51

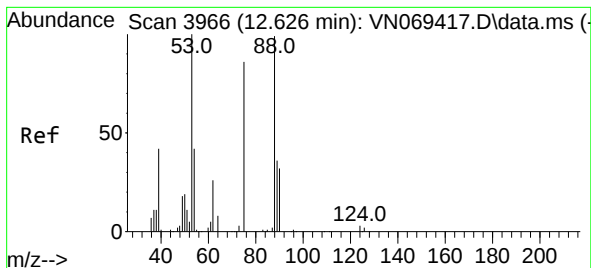
Tgt Ion: 75 Resp: 583482

Ion Ratio Lower Upper

75 100

77 1.0 82.6 247.8#

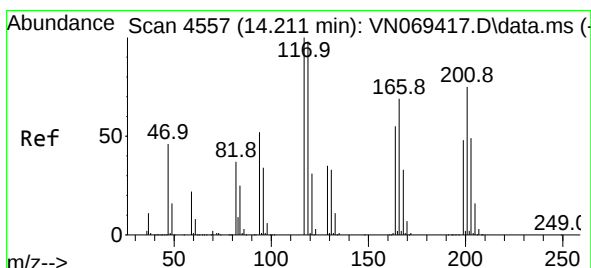
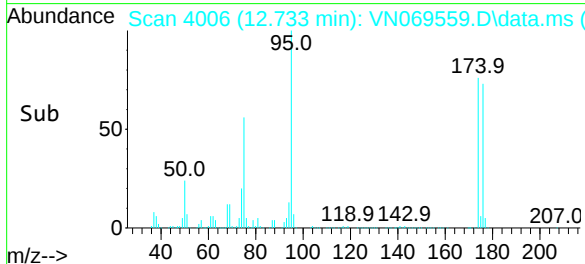
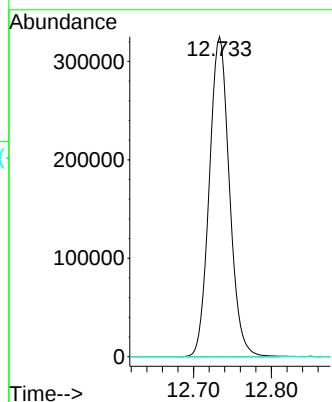
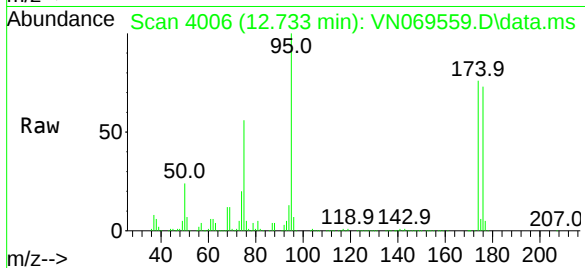




#81  
trans-1,4-Dichloro-2-butene  
Concen: 83.301 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.107 min  
Lab File: VN069559.D  
Acq: 18 Nov 2021 17:51

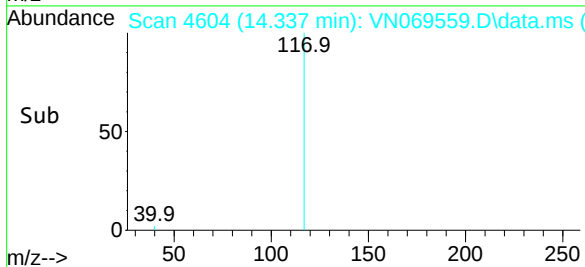
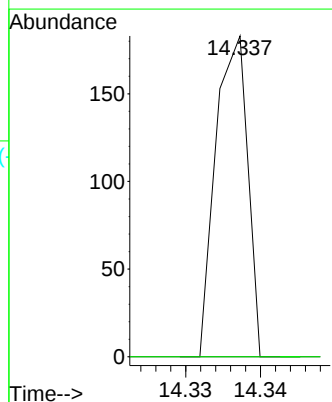
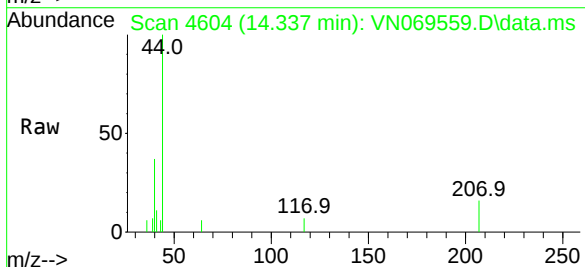
Instrument :  
MSVOA\_N  
ClientSampleId :

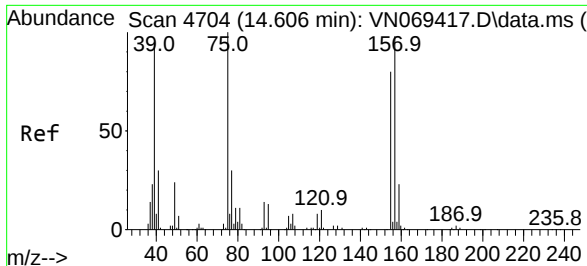
Tgt Ion: 75 Resp: 583482  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 38.2 57.4#



#90  
Hexachloroethane  
Concen: 2.167 ug/l  
RT: 14.337 min Scan# 4604  
Delta R.T. 0.126 min  
Lab File: VN069559.D  
Acq: 18 Nov 2021 17:51

Tgt Ion: 117 Resp: 54  
Ion Ratio Lower Upper  
117 100  
201 0.0 43.9 131.6#

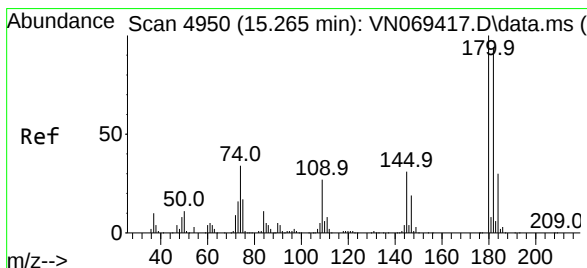
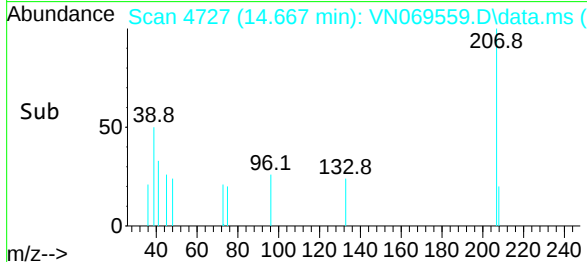
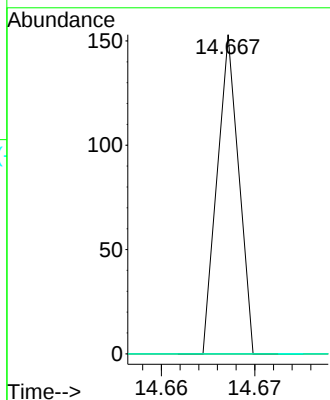
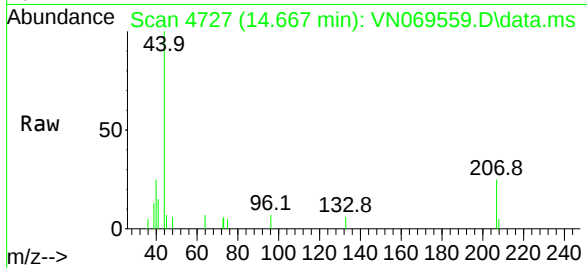




#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 1.802 ug/l  
 RT: 14.667 min Scan# 41  
 Delta R.T. 0.061 min  
 Lab File: VN069559.D  
 Acq: 18 Nov 2021 17:51

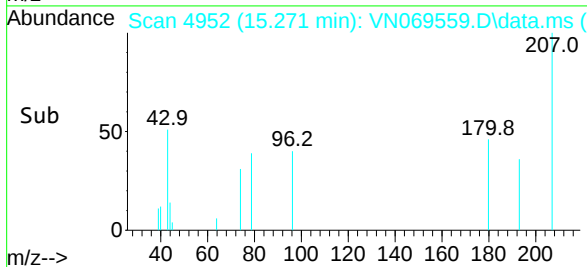
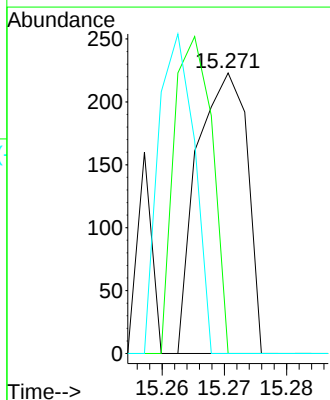
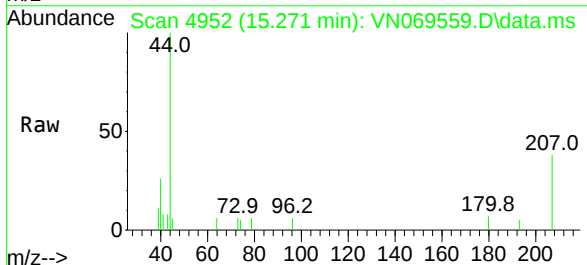
Instrument :  
 MSVOA\_N  
 ClientSampleId :

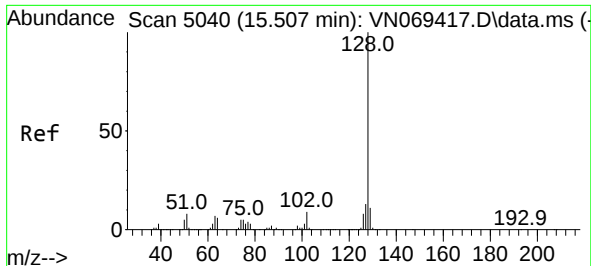
Tgt Ion: 75 Resp: 25  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 46.9 140.7#  
 157 0.0 60.6 181.7#



#93  
 1,2,4-Trichlorobenzene  
 Concen: 3.122 ug/l  
 RT: 15.271 min Scan# 4952  
 Delta R.T. 0.006 min  
 Lab File: VN069559.D  
 Acq: 18 Nov 2021 17:51

Tgt Ion: 180 Resp: 124  
 Ion Ratio Lower Upper  
 180 100  
 182 86.3 48.3 144.9  
 145 82.3 14.5 43.5#

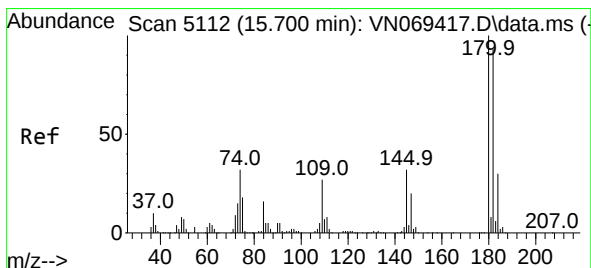
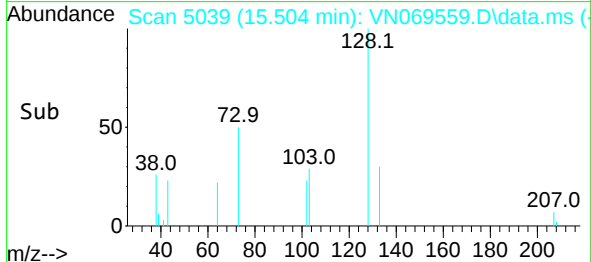
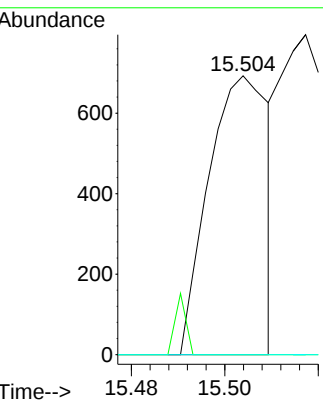
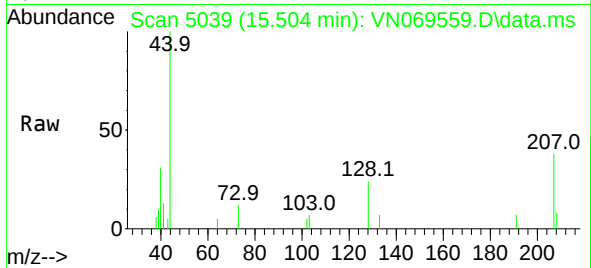




#95  
Naphthalene  
Concen: 4.466 ug/l  
RT: 15.504 min Scan# 5040  
Delta R.T. -0.003 min  
Lab File: VN069559.D  
Acq: 18 Nov 2021 17:51

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:128 Resp: 612  
Ion Ratio Lower Upper  
128 100  
127 3.9 10.5 15.7#  
129 0.0 8.7 13.1#



#96  
1,2,3-Trichlorobenzene  
Concen: 3.171 ug/l  
RT: 15.708 min Scan# 5115  
Delta R.T. 0.008 min  
Lab File: VN069559.D  
Acq: 18 Nov 2021 17:51

Tgt Ion:180 Resp: 25  
Ion Ratio Lower Upper  
180 100  
182 0.0 47.4 142.2#  
145 0.0 15.0 45.1#

