

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042222\  
 Data File : VN072157.D  
 Acq On : 22 Apr 2022 15:22  
 Operator : JC\MD  
 Sample : N2526-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Apr 23 03:18:49 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N033022W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 31 01:57:54 2022  
 Response via : Initial Calibration

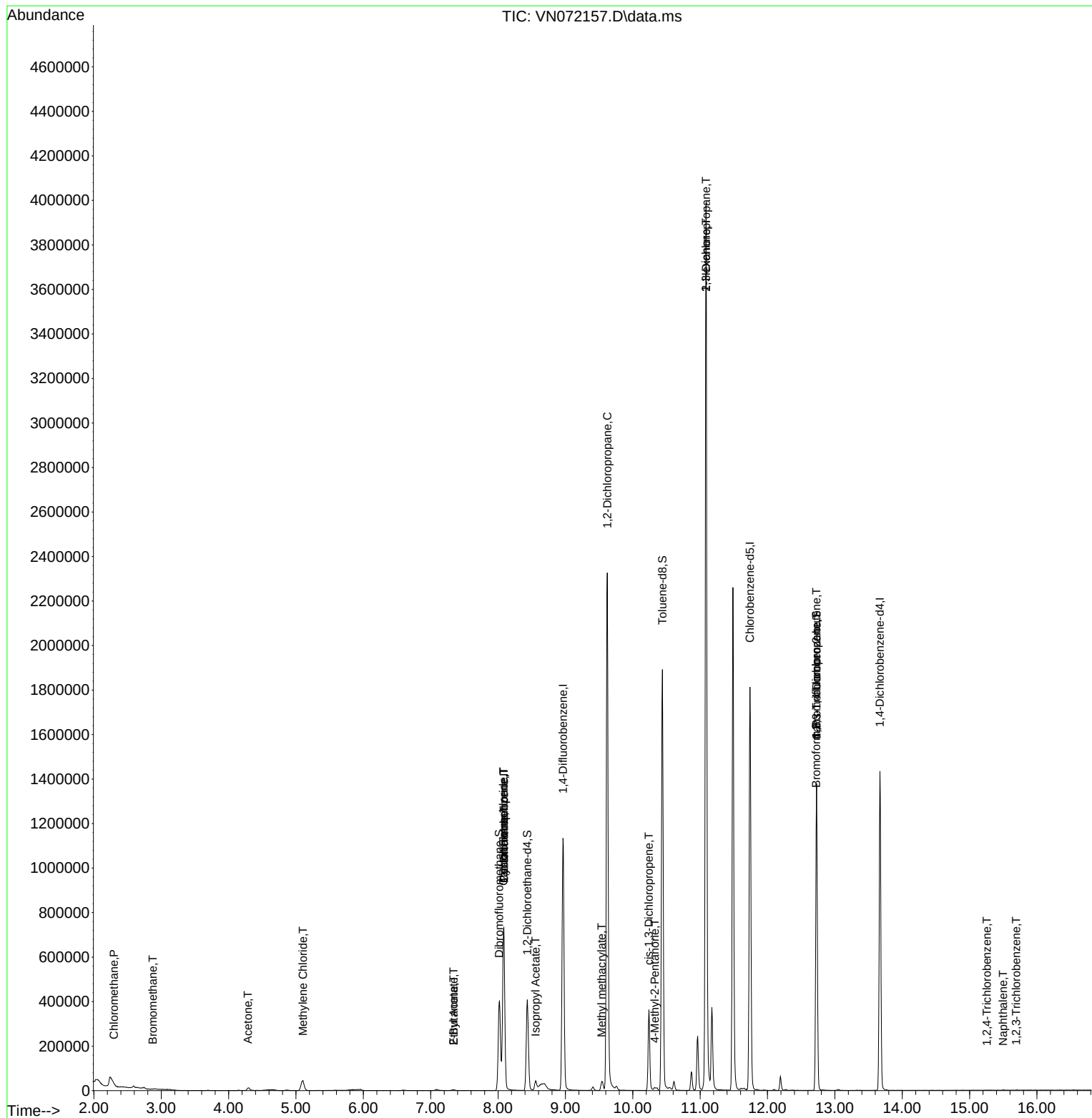
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.086  | 168   | 624053   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.963  | 114   | 1079380  | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.739 | 117   | 1165471  | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.668 | 152   | 429375   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.434  | 65    | 329766   | 46.288    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery  | =      | 92.580%  |
| 35) Dibromofluoromethane      | 8.016  | 113   | 301646   | 47.492    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery  | =      | 94.980%  |
| 50) Toluene-d8                | 10.439 | 98    | 1389730  | 53.487    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery  | =      | 106.980% |
| 62) 4-Bromofluorobenzene      | 12.727 | 95    | 479178   | 57.023    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery  | =      | 114.040% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.299  | 50    | 1788     | 0.284     | ug/l # | 43       |
| 5) Bromomethane               | 2.875  | 94    | 1141     | 0.254     | ug/l   | 83       |
| 16) Acetone                   | 4.287  | 43    | 19841    | 6.517     | ug/l   | 93       |
| 18) Methyl Acetate            | 4.863  | 43    | 5484     | Below Cal |        | 90       |
| 20) Methylene Chloride        | 5.104  | 84    | 40295    | 6.279     | ug/l   | 93       |
| 25) 2-Butanone                | 7.339  | 43    | 6641     | 1.513     | ug/l   | 94       |
| 31) Cyclohexane               | 8.086  | 56    | 9596     | 0.990     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.086  | 75    | 39953    | 4.504     | ug/l # | 48       |
| 37) Ethyl Acetate             | 7.339  | 43    | 6641     | 0.684     | ug/l # | 67       |
| 38) Carbon Tetrachloride      | 8.081  | 117   | 54055    | 6.218     | ug/l # | 18       |
| 43) Isopropyl Acetate         | 8.557  | 43    | 46841    | 2.901     | ug/l # | 88       |
| 45) 1,2-Dichloropropane       | 9.622  | 63    | 3705     | 0.529     | ug/l # | 44       |
| 48) Methyl methacrylate       | 9.539  | 41    | 10344    | 1.544     | ug/l # | 10       |
| 49) 1,4-Dioxane               | 9.616  | 88    | 619      | Below Cal | #      | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.328 | 43    | 5971     | 0.643     | ug/l # | 79       |
| 54) cis-1,3-Dichloropropene   | 10.239 | 75    | 75661    | 6.984     | ug/l # | 56       |
| 57) 1,3-Dichloropropane       | 11.086 | 76    | 48318    | 3.965     | ug/l # | 42       |
| 59) 2-Hexanone                | 11.086 | 43    | 532718   | 81.500    | ug/l # | 50       |
| 71) Bromoform                 | 12.721 | 173   | 2643     | 0.412     | ug/l # | 28       |
| 76) 1,2,3-Trichloropropane    | 12.727 | 75    | 223586   | 22.478    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.727 | 75    | 223586   | 69.659    | ug/l # | 10       |
| 93) 1,2,4-Trichlorobenzene    | 15.257 | 180   | 477      | 2.153     | ug/l # | 81       |
| 95) Naphthalene               | 15.498 | 128   | 1746     | 3.885     | ug/l # | 79       |
| 96) 1,2,3-Trichlorobenzene    | 15.692 | 180   | 658      | 2.509     | ug/l # | 78       |

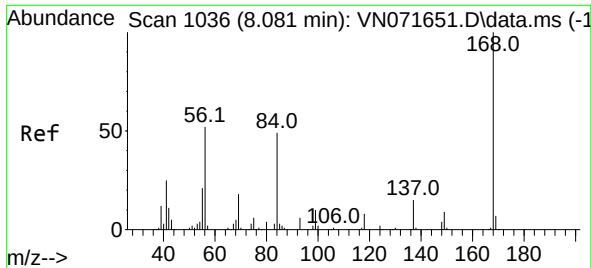
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

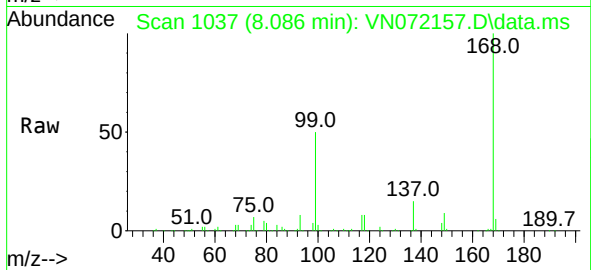
Quant Time: Apr 23 03:18:49 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N033022W.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 31 01:57:54 2022  
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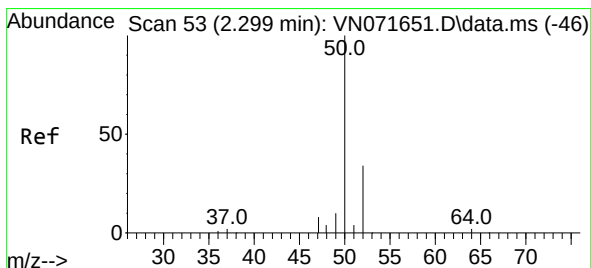
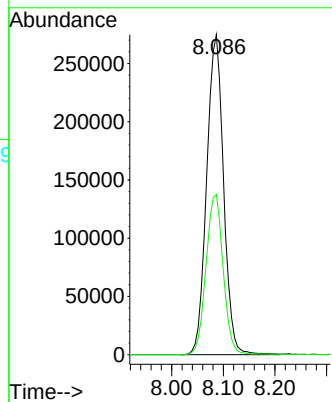
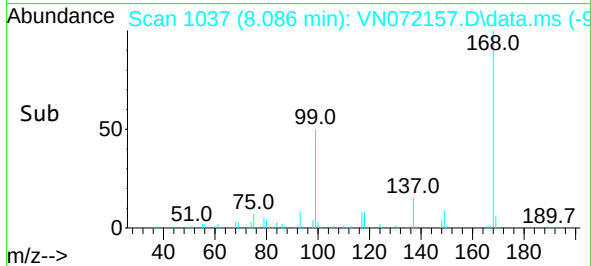


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.086 min Scan# 1037  
Delta R.T. 0.005 min  
Lab File: VN072157.D  
Acq: 22 Apr 2022 15:22

Instrument :  
MSVOA\_N  
ClientSampleId :

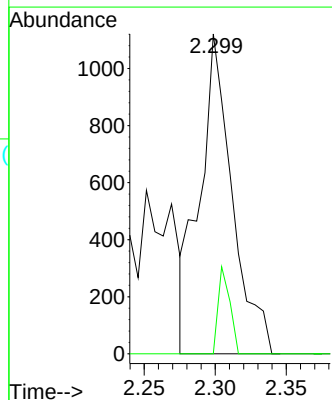
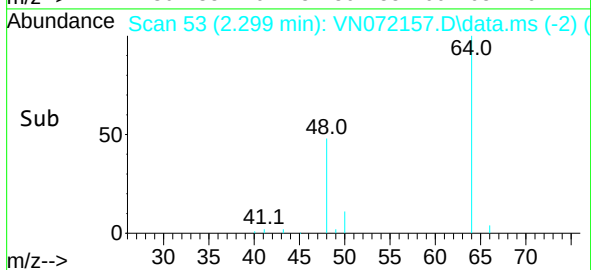
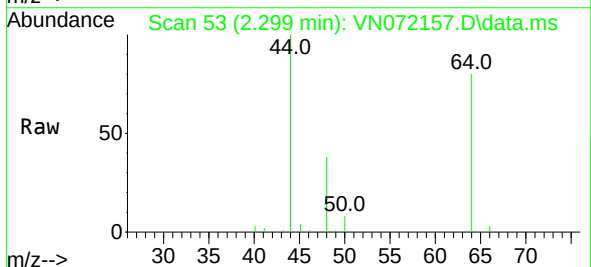


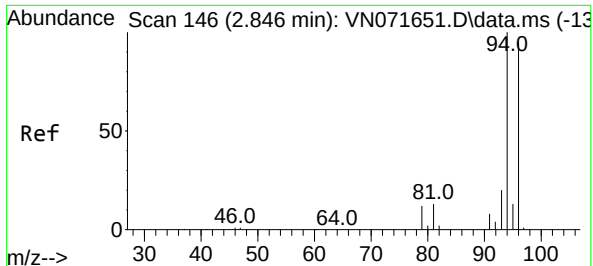
Tgt Ion:168 Resp: 624053  
Ion Ratio Lower Upper  
168 100  
99 50.1 42.3 63.5



#3  
Chloromethane  
Concen: 0.284 ug/l  
RT: 2.299 min Scan# 53  
Delta R.T. -0.000 min  
Lab File: VN072157.D  
Acq: 22 Apr 2022 15:22

Tgt Ion: 50 Resp: 1788  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.7 38.5#

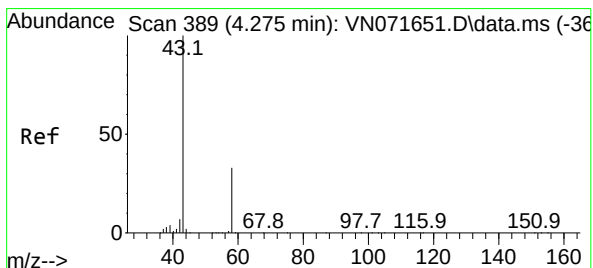
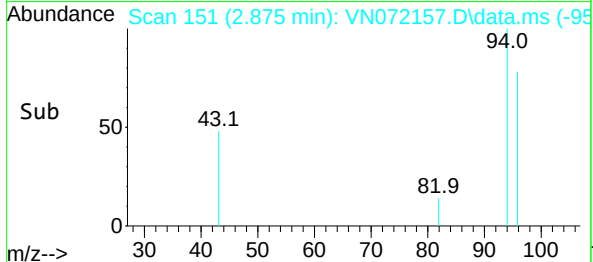
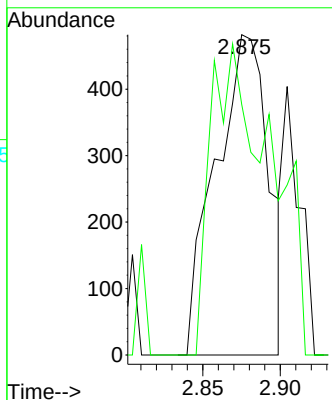
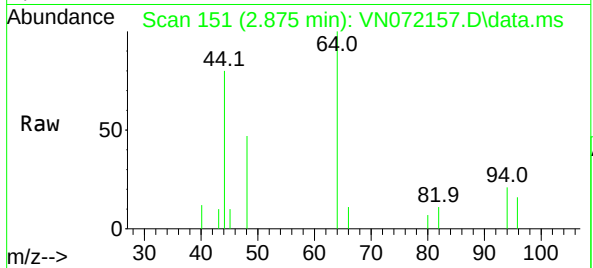




#5  
Bromomethane  
Concen: 0.254 ug/l  
RT: 2.875 min Scan# 11  
Delta R.T. 0.029 min  
Lab File: VN072157.D  
Acq: 22 Apr 2022 15:22

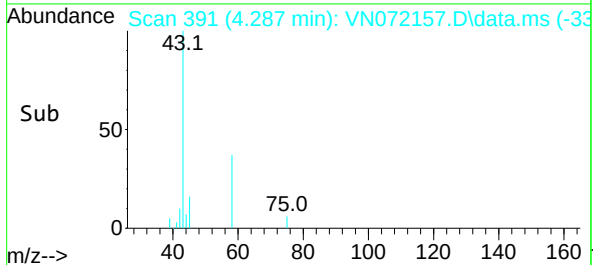
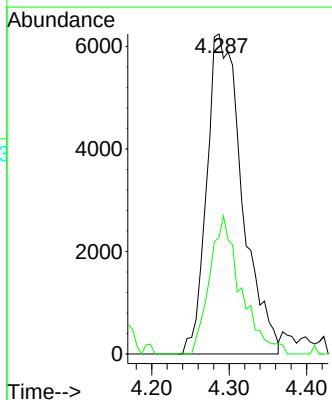
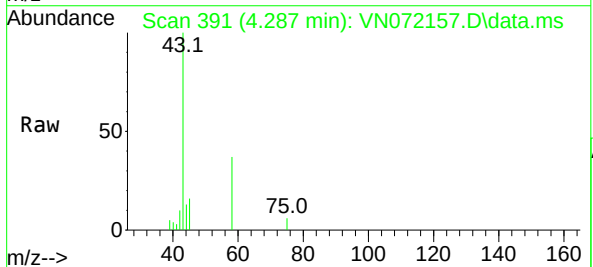
Instrument :  
MSVOA\_N  
ClientSampleId :

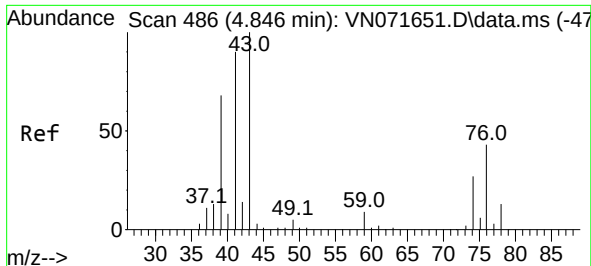
Tgt Ion: 94 Resp: 1141  
Ion Ratio Lower Upper  
94 100  
96 78.2 76.0 114.0



#16  
Acetone  
Concen: 6.517 ug/l  
RT: 4.287 min Scan# 391  
Delta R.T. 0.012 min  
Lab File: VN072157.D  
Acq: 22 Apr 2022 15:22

Tgt Ion: 43 Resp: 19841  
Ion Ratio Lower Upper  
43 100  
58 36.5 26.0 39.0

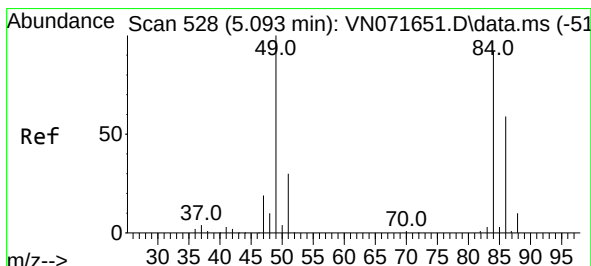
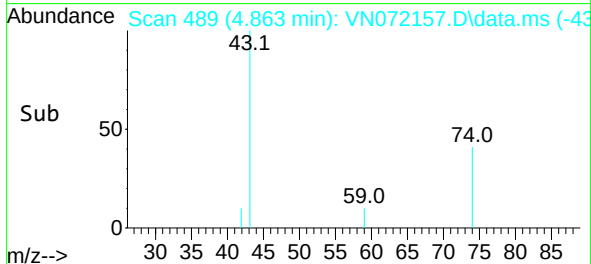
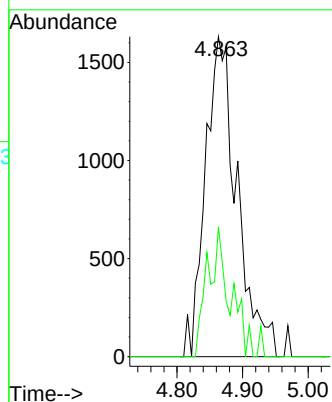
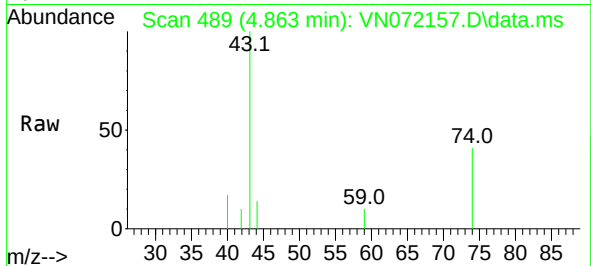




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.863 min Scan# 41  
Delta R.T. 0.017 min  
Lab File: VN072157.D  
Acq: 22 Apr 2022 15:22

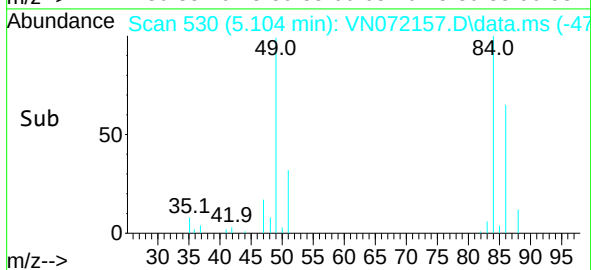
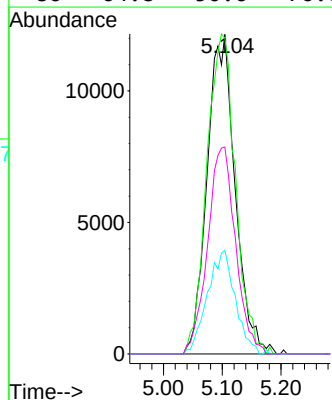
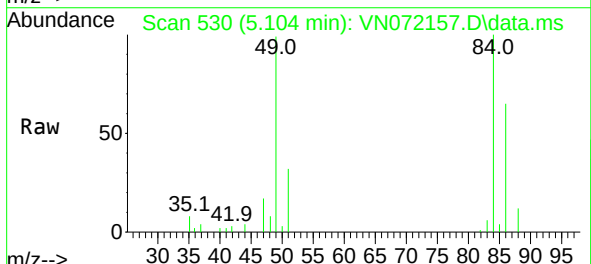
Instrument :  
MSVOA\_N  
ClientSampleId :

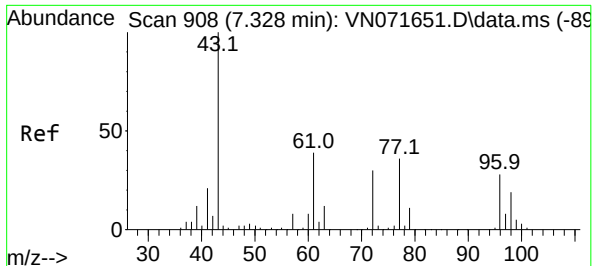
Tgt Ion: 43 Resp: 5484  
Ion Ratio Lower Upper  
43 100  
74 22.0 21.6 32.4



#20  
Methylene Chloride  
Concen: 6.279 ug/l  
RT: 5.104 min Scan# 530  
Delta R.T. 0.011 min  
Lab File: VN072157.D  
Acq: 22 Apr 2022 15:22

Tgt Ion: 84 Resp: 40295  
Ion Ratio Lower Upper  
84 100  
49 98.8 88.3 132.5  
51 32.5 28.2 42.2  
86 64.8 50.6 76.0





#25

2-Butanone

Concen: 1.513 ug/l

RT: 7.339 min Scan# 91

Delta R.T. 0.011 min

Lab File: VN072157.D

Acq: 22 Apr 2022 15:22

Instrument :

MSVOA\_N

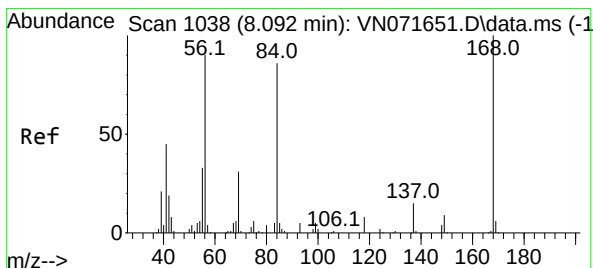
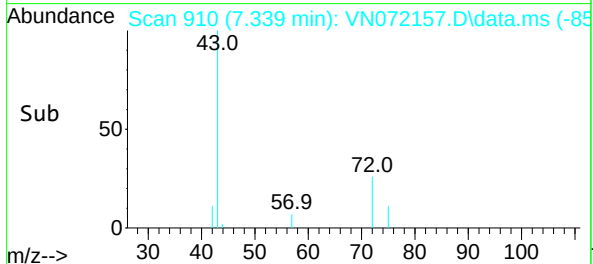
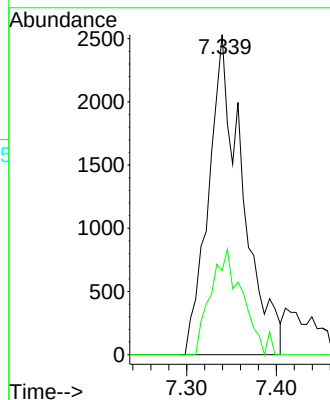
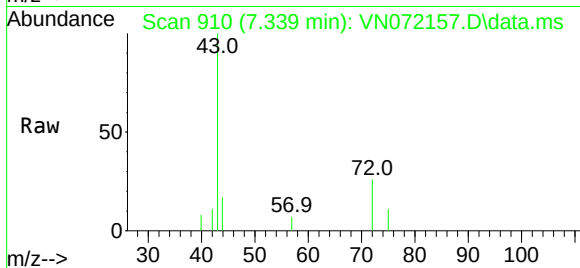
ClientSampleId :

Tgt Ion: 43 Resp: 6641

Ion Ratio Lower Upper

43 100

72 26.3 23.7 35.5



#31

Cyclohexane

Concen: 0.990 ug/l

RT: 8.086 min Scan# 1037

Delta R.T. -0.006 min

Lab File: VN072157.D

Acq: 22 Apr 2022 15:22

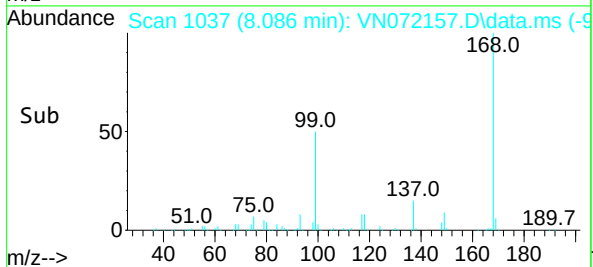
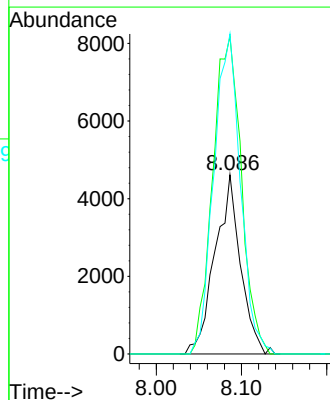
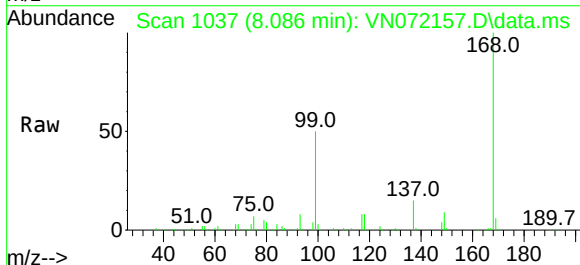
Tgt Ion: 56 Resp: 9596

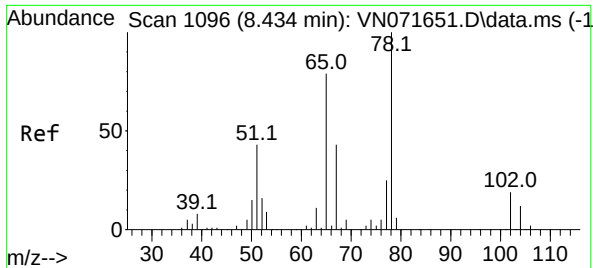
Ion Ratio Lower Upper

56 100

69 177.2 27.8 41.8#

84 178.6 76.9 115.3#

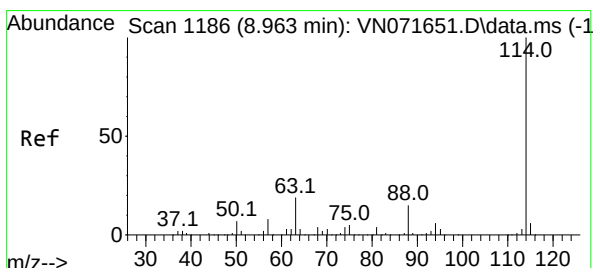
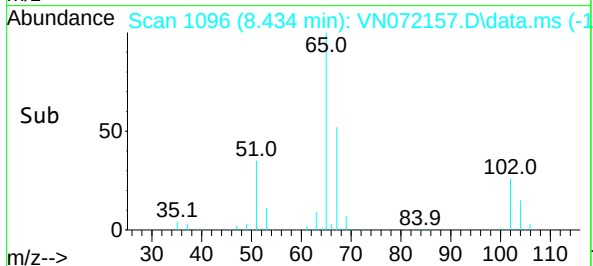
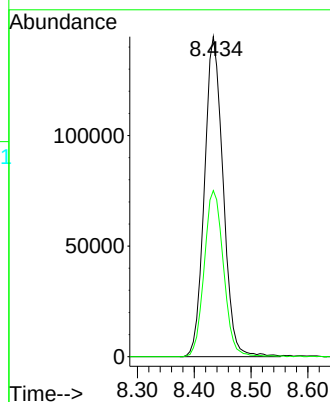
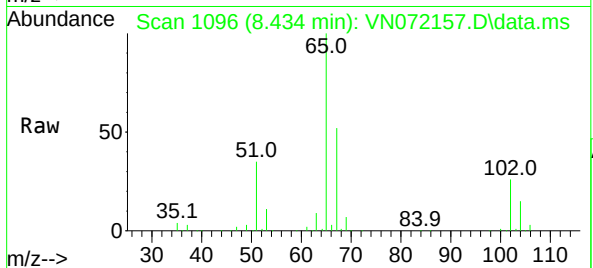




#33  
1,2-Dichloroethane-d4  
Concen: 46.288 ug/l  
RT: 8.434 min Scan# 1096  
Delta R.T. -0.000 min  
Lab File: VN072157.D  
Acq: 22 Apr 2022 15:22

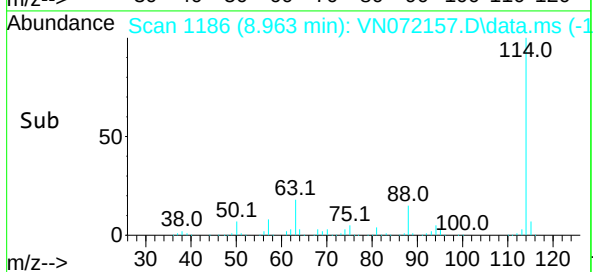
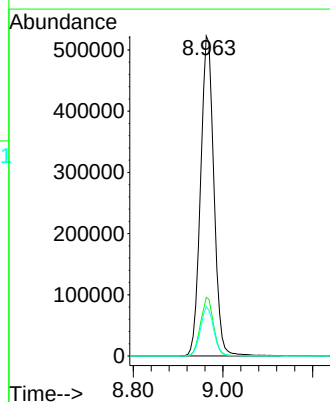
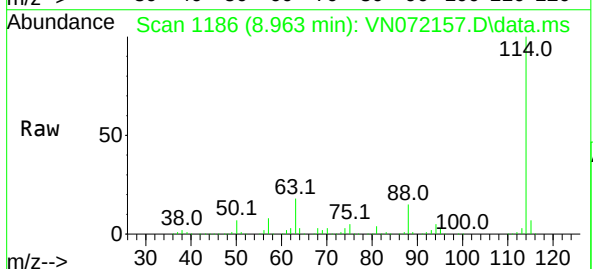
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ClientSampleId :

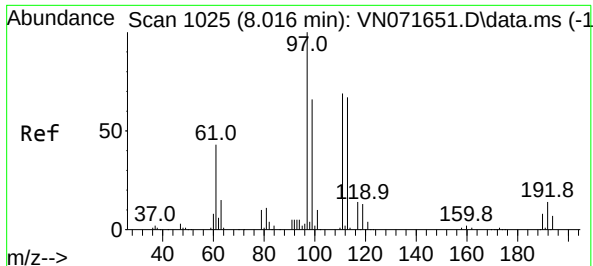
Tgt Ion: 65 Resp: 329766  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 104.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.963 min Scan# 1186  
Delta R.T. -0.000 min  
Lab File: VN072157.D  
Acq: 22 Apr 2022 15:22

Tgt Ion: 114 Resp: 1079380  
Ion Ratio Lower Upper  
114 100  
63 18.3 0.0 40.0  
88 15.4 0.0 32.6





#35

Dibromofluoromethane

Concen: 47.492 ug/l

RT: 8.016 min Scan# 1037

Delta R.T. -0.000 min

Lab File: VN072157.D

Acq: 22 Apr 2022 15:22

Instrument :

MSVOA\_N

ClientSampleId :

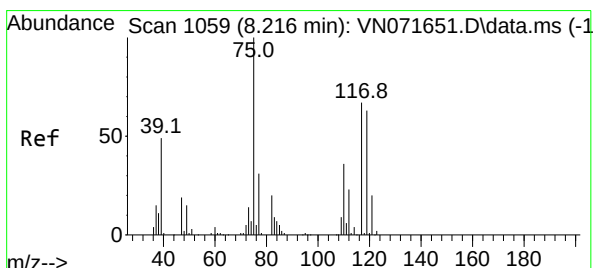
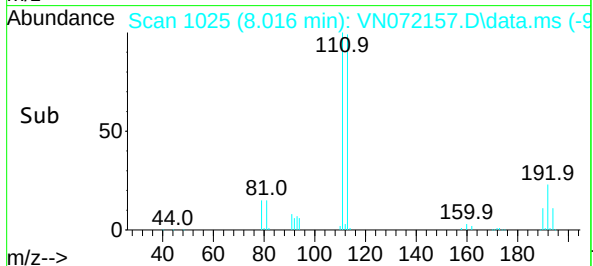
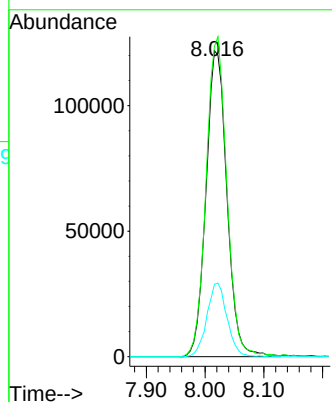
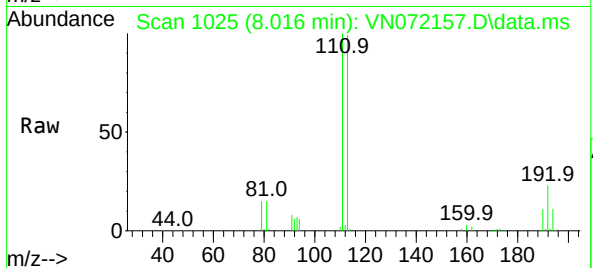
Tgt Ion:113 Resp: 301646

Ion Ratio Lower Upper

113 100

111 103.8 81.4 122.0

192 23.2 17.0 25.6



#36

1,1-Dichloropropene

Concen: 4.504 ug/l

RT: 8.086 min Scan# 1037

Delta R.T. -0.130 min

Lab File: VN072157.D

Acq: 22 Apr 2022 15:22

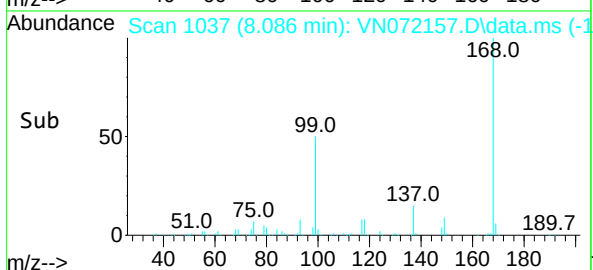
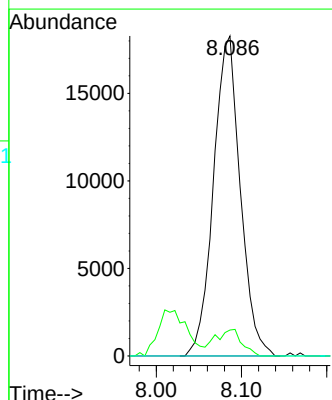
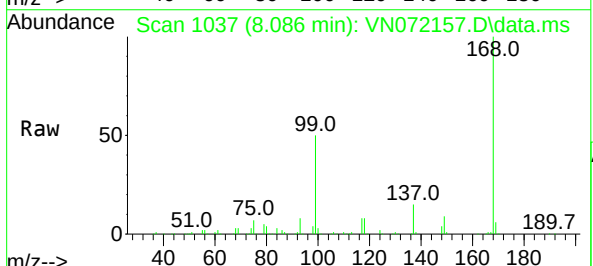
Tgt Ion: 75 Resp: 39953

Ion Ratio Lower Upper

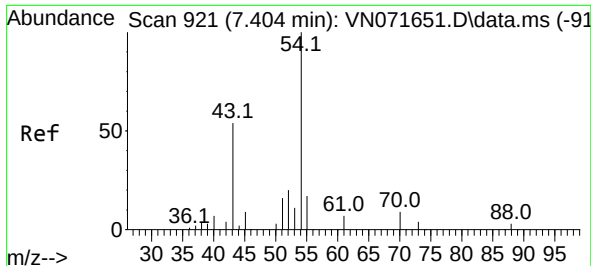
75 100

110 8.1 18.3 54.8#

77 0.0 25.1 37.7#

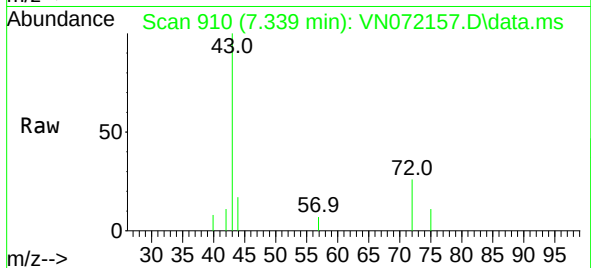




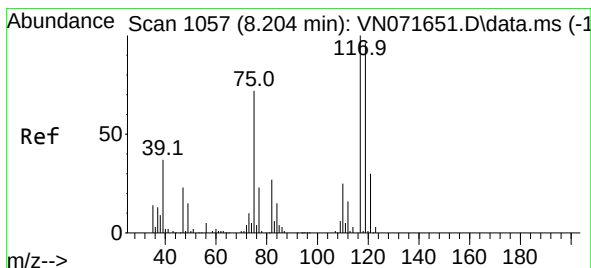
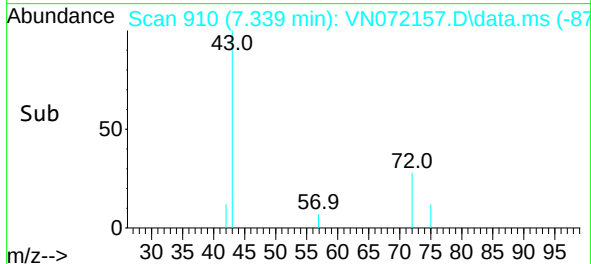
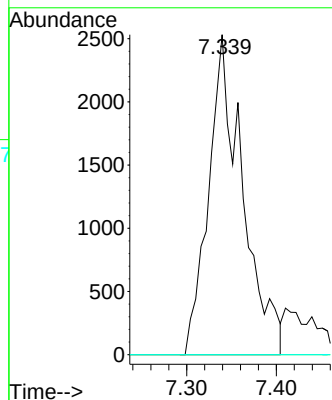


#37  
Ethyl Acetate  
Concen: 0.684 ug/l  
RT: 7.339 min Scan# 91  
Delta R.T. -0.065 min  
Lab File: VN072157.D  
Acq: 22 Apr 2022 15:22

Instrument :  
MSVOA\_N  
ClientSampleId :

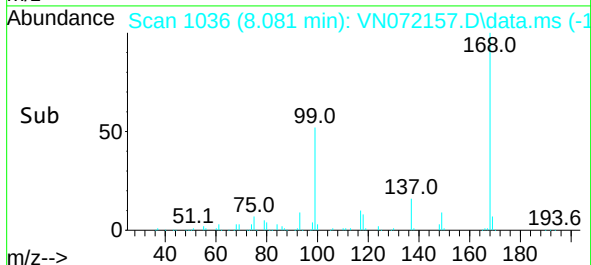
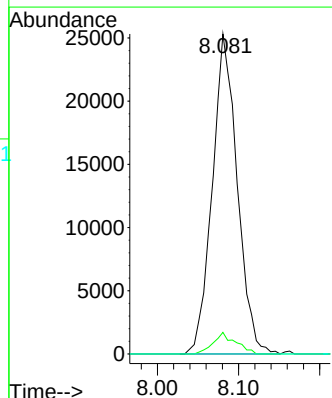
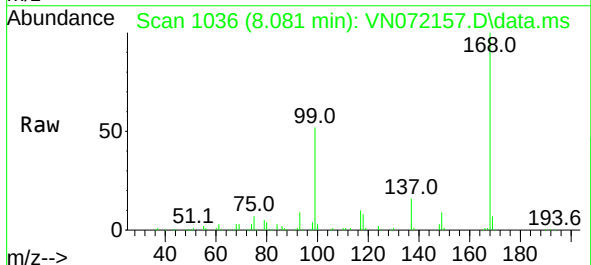


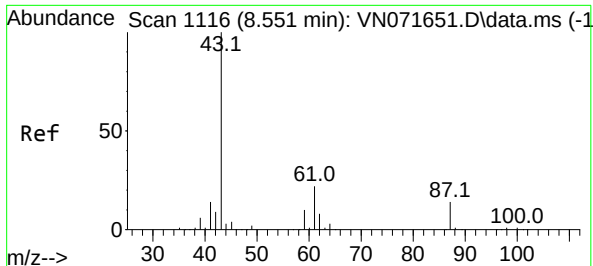
Tgt Ion: 43 Resp: 6641  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.8 17.6#  
70 0.0 9.3 13.9#



#38  
Carbon Tetrachloride  
Concen: 6.218 ug/l  
RT: 8.081 min Scan# 1036  
Delta R.T. -0.123 min  
Lab File: VN072157.D  
Acq: 22 Apr 2022 15:22

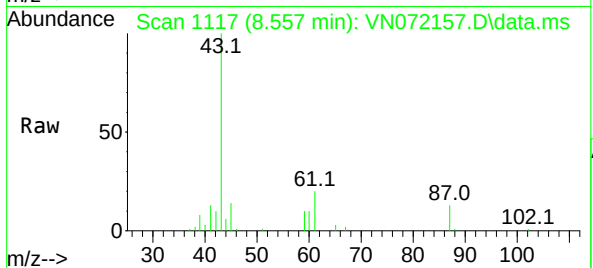
Tgt Ion: 117 Resp: 54055  
Ion Ratio Lower Upper  
117 100  
119 6.8 75.8 113.8#  
121 0.0 24.6 37.0#



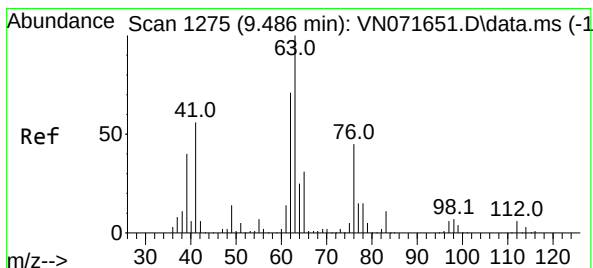
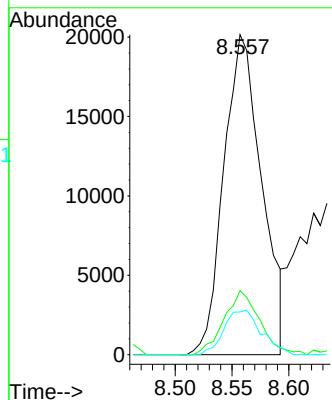
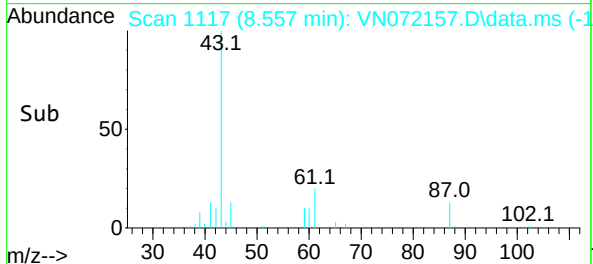


#43  
Isopropyl Acetate  
Concen: 2.901 ug/l  
RT: 8.557 min Scan# 1117  
Delta R.T. 0.006 min  
Lab File: VN072157.D  
Acq: 22 Apr 2022 15:22

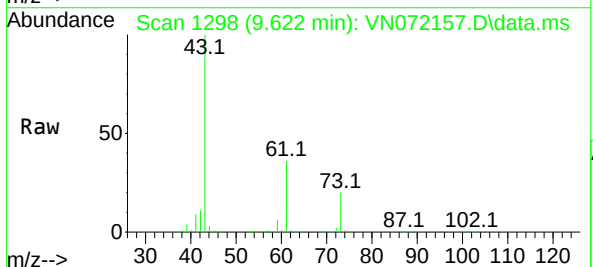
Instrument :  
MSVOA\_N  
ClientSampleId :



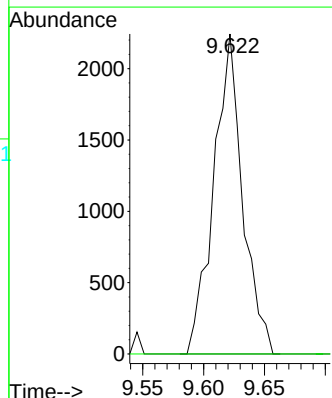
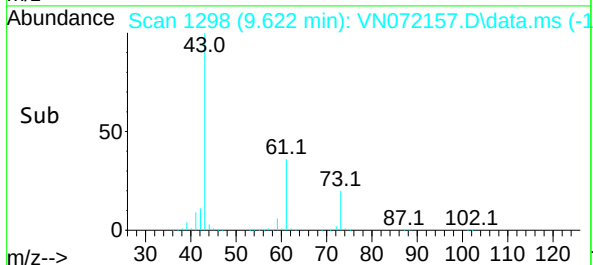
Tgt Ion: 43 Resp: 46841  
Ion Ratio Lower Upper  
43 100  
61 18.8 21.9 32.9#  
87 13.7 12.0 18.0

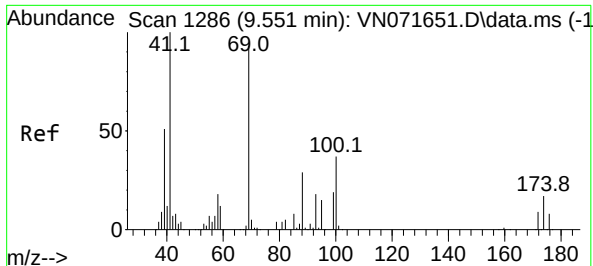


#45  
1,2-Dichloropropane  
Concen: 0.529 ug/l  
RT: 9.622 min Scan# 1298  
Delta R.T. 0.136 min  
Lab File: VN072157.D  
Acq: 22 Apr 2022 15:22



Tgt Ion: 63 Resp: 3705  
Ion Ratio Lower Upper  
63 100  
65 0.0 24.9 37.3#





#48

Methyl methacrylate

Concen: 1.544 ug/l

RT: 9.539 min Scan# 1

Delta R.T. -0.012 min

Lab File: VN072157.D

Acq: 22 Apr 2022 15:22

Instrument :

MSVOA\_N

ClientSampleId :

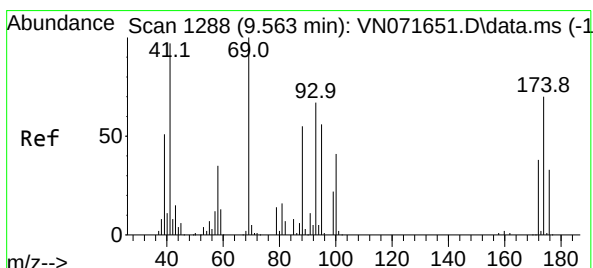
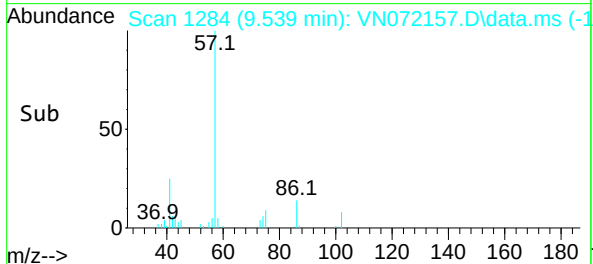
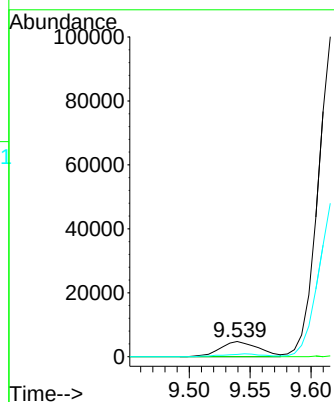
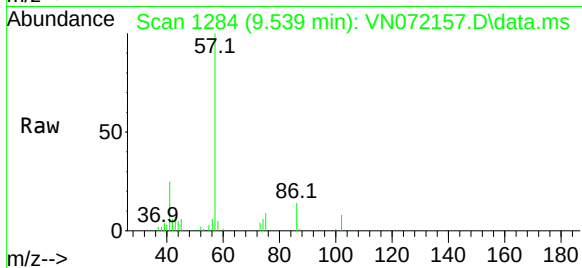
Tgt Ion: 41 Resp: 10344

Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

39 0.0 45.6 68.4#



#49

1,4-Dioxane

Concen: Below Cal

RT: 9.616 min Scan# 1297

Delta R.T. 0.053 min

Lab File: VN072157.D

Acq: 22 Apr 2022 15:22

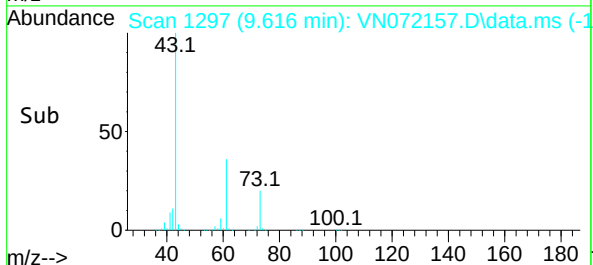
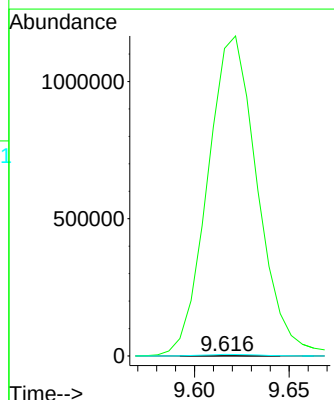
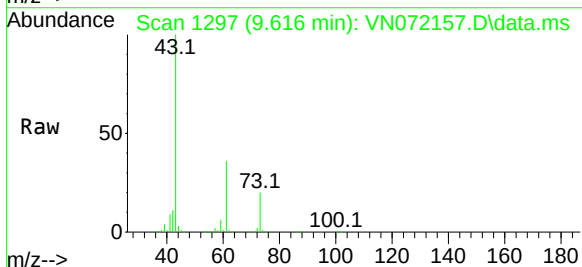
Tgt Ion: 88 Resp: 619

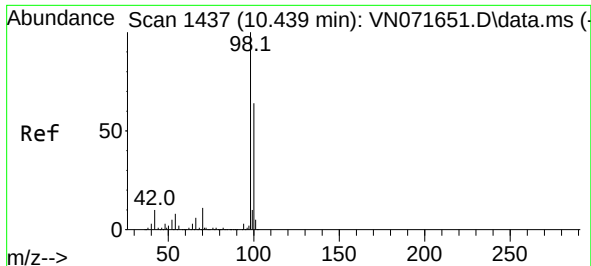
Ion Ratio Lower Upper

88 100

43 352053.2 20.2 30.4#

58 1909.4 54.2 81.4#

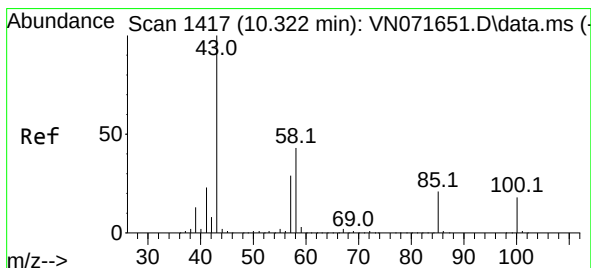
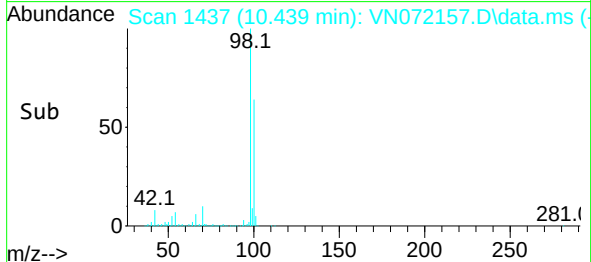
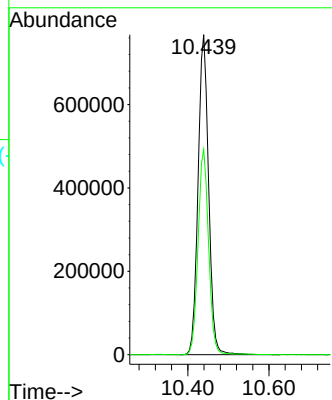
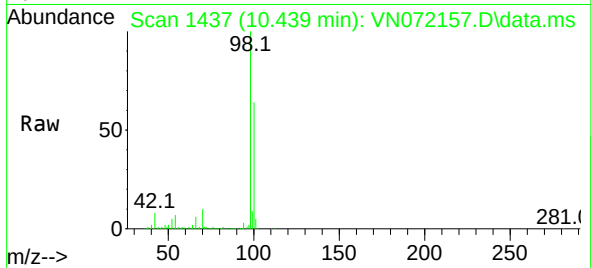




#50  
Toluene-d8  
Concen: 53.487 ug/l  
RT: 10.439 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: VN072157.D  
Acq: 22 Apr 2022 15:22

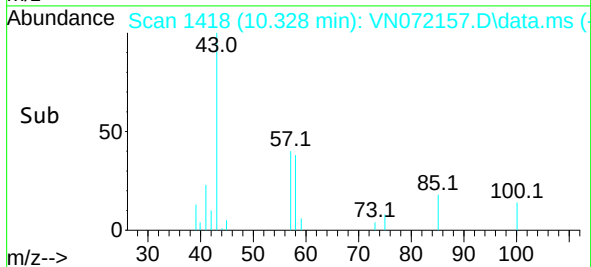
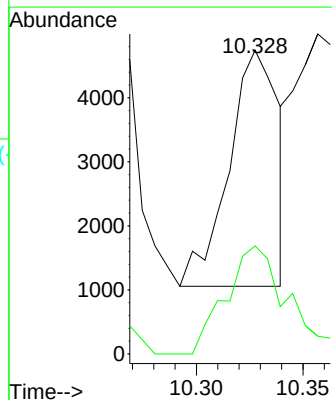
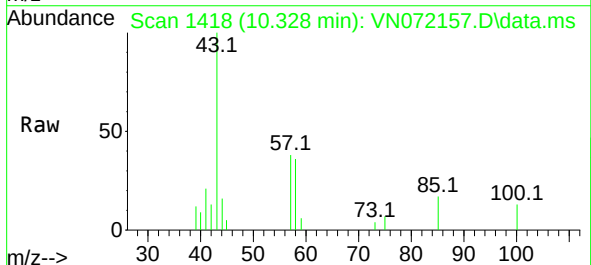
Instrument :  
MSVOA\_N  
ClientSampleId :

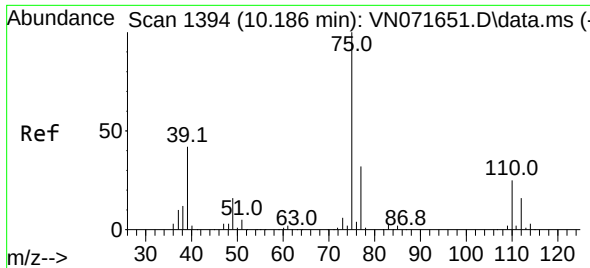
Tgt Ion: 98 Resp: 1389730  
Ion Ratio Lower Upper  
98 100  
100 64.1 52.6 78.8



#51  
4-Methyl-2-Pentanone  
Concen: 0.643 ug/l  
RT: 10.328 min Scan# 1418  
Delta R.T. 0.006 min  
Lab File: VN072157.D  
Acq: 22 Apr 2022 15:22

Tgt Ion: 43 Resp: 5971  
Ion Ratio Lower Upper  
43 100  
58 56.0 34.1 51.1#

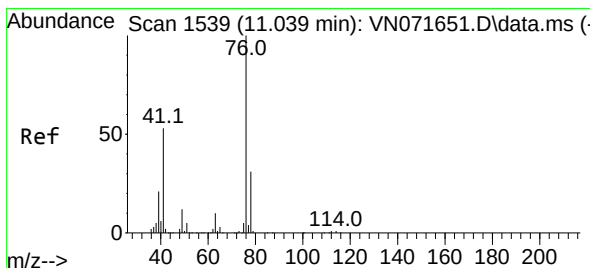
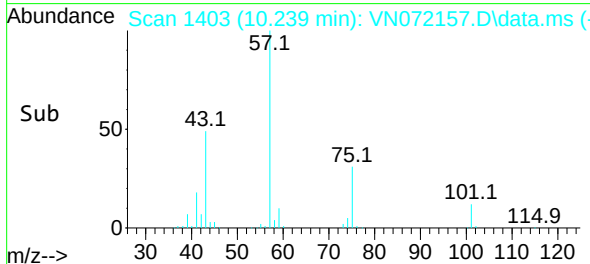
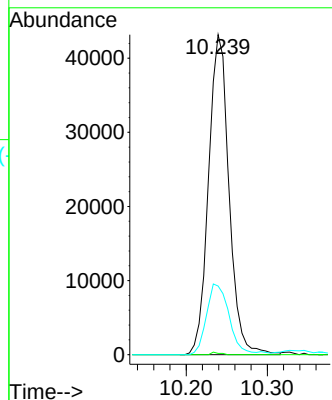
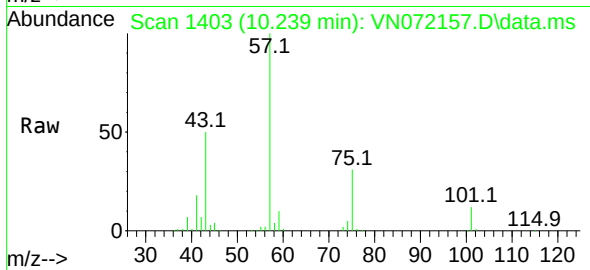




#54  
 cis-1,3-Dichloropropene  
 Concen: 6.984 ug/l  
 RT: 10.239 min Scan# 1403  
 Delta R.T. 0.053 min  
 Lab File: VN072157.D  
 Acq: 22 Apr 2022 15:22

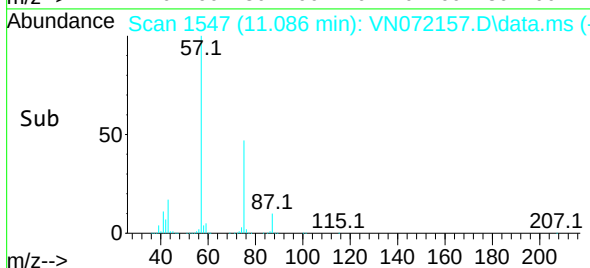
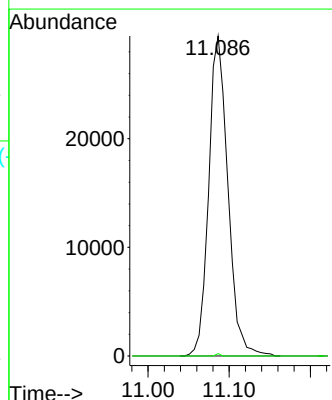
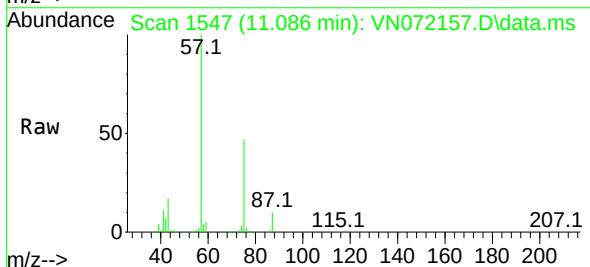
Instrument :  
 MSVOA\_N  
 ClientSampleId :

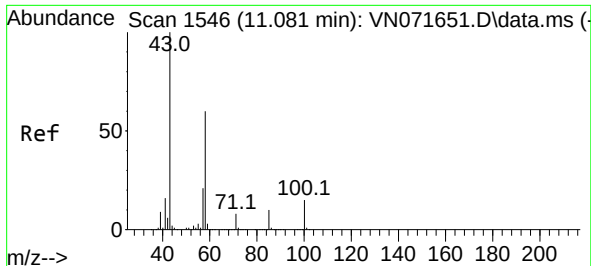
Tgt Ion: 75 Resp: 75661  
 Ion Ratio Lower Upper  
 75 100  
 77 0.4 25.2 37.8#  
 39 21.5 35.7 53.5#



#57  
 1,3-Dichloropropane  
 Concen: 3.965 ug/l  
 RT: 11.086 min Scan# 1547  
 Delta R.T. 0.047 min  
 Lab File: VN072157.D  
 Acq: 22 Apr 2022 15:22

Tgt Ion: 76 Resp: 48318  
 Ion Ratio Lower Upper  
 76 100  
 78 0.2 26.2 39.2#

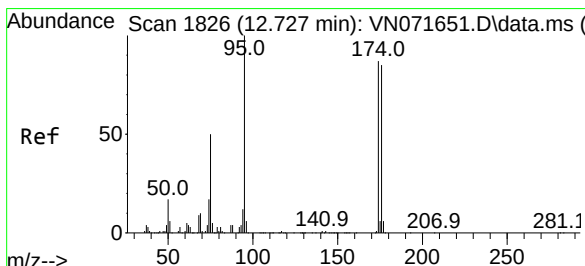
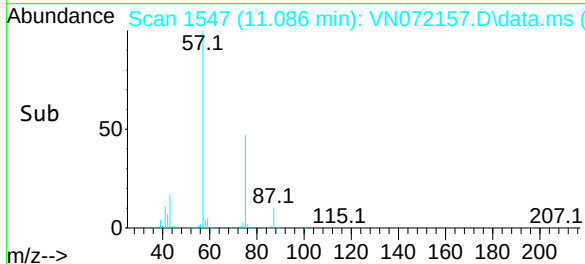
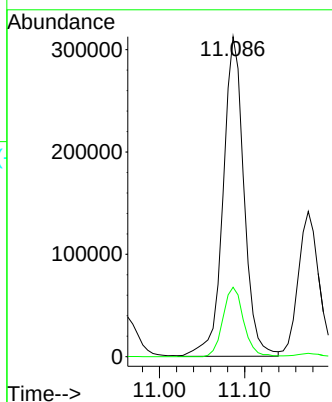
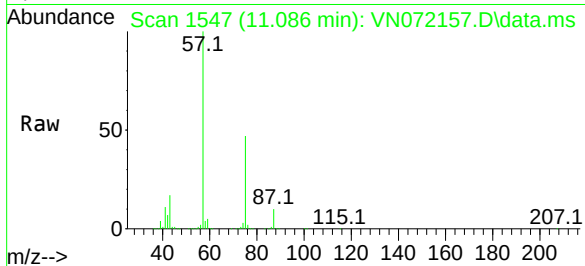




#59  
2-Hexanone  
Concen: 81.500 ug/l  
RT: 11.086 min Scan# 1154  
Delta R.T. 0.005 min  
Lab File: VN072157.D  
Acq: 22 Apr 2022 15:22

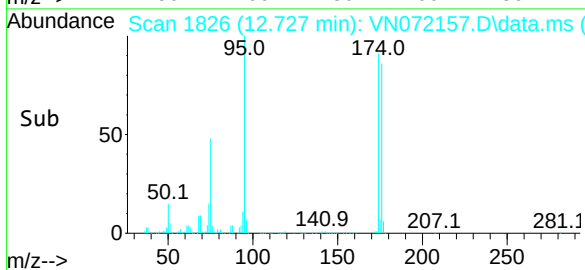
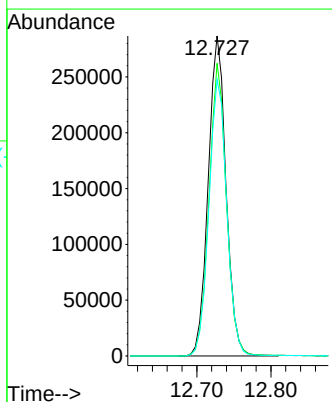
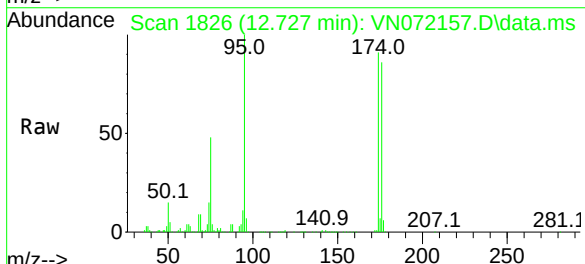
Instrument :  
MSVOA\_N  
ClientSampleId :

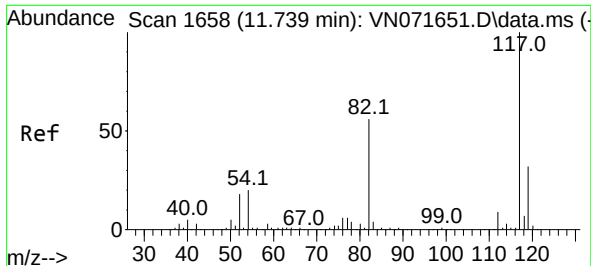
Tgt Ion: 43 Resp: 532718  
Ion Ratio Lower Upper  
43 100  
58 21.5 29.7 89.1#



#62  
4-Bromofluorobenzene  
Concen: 57.023 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.000 min  
Lab File: VN072157.D  
Acq: 22 Apr 2022 15:22

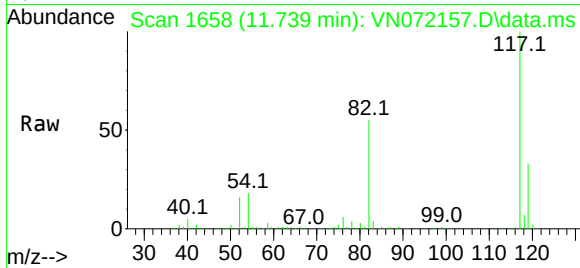
Tgt Ion: 95 Resp: 479178  
Ion Ratio Lower Upper  
95 100  
174 89.3 0.0 167.6  
176 86.5 0.0 163.4



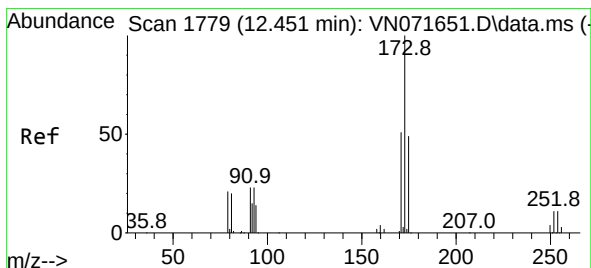
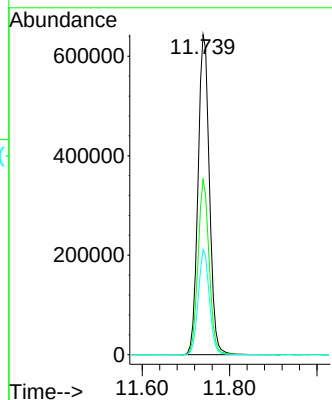
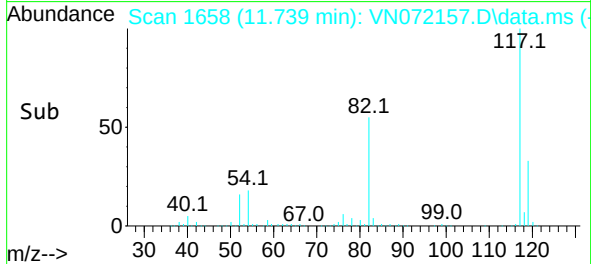


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.739 min Scan# 1165471  
Delta R.T. 0.000 min  
Lab File: VN072157.D  
Acq: 22 Apr 2022 15:22

Instrument :  
MSVOA\_N  
ClientSampleId :

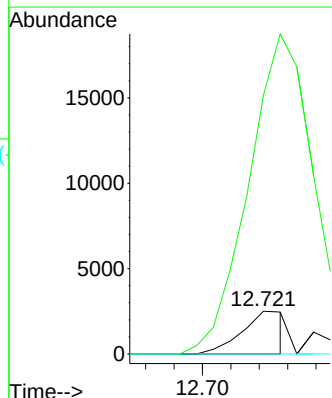
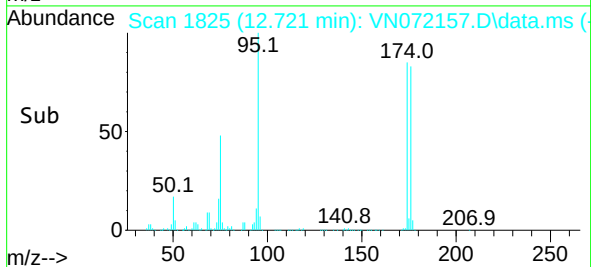
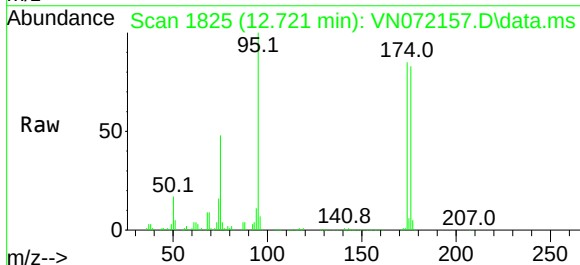


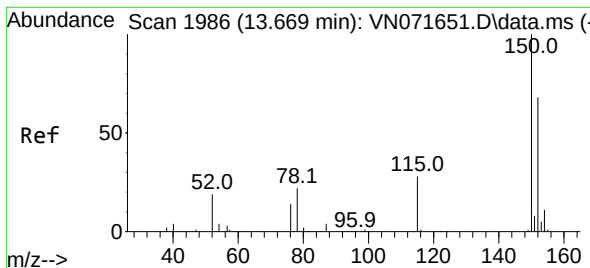
Tgt Ion:117 Resp: 1165471  
Ion Ratio Lower Upper  
117 100  
82 54.7 44.2 66.2  
119 32.8 25.4 38.0



#71  
Bromoform  
Concen: 0.412 ug/l  
RT: 12.721 min Scan# 1825  
Delta R.T. 0.270 min  
Lab File: VN072157.D  
Acq: 22 Apr 2022 15:22

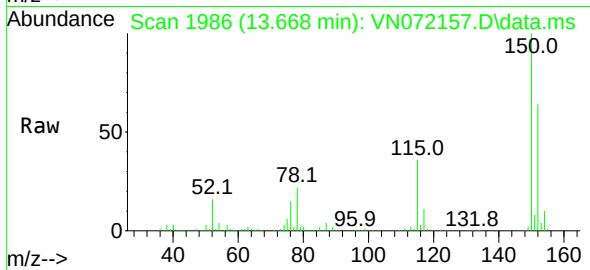
Tgt Ion:173 Resp: 2643  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.6 73.6#  
254 0.0 0.1 0.1#



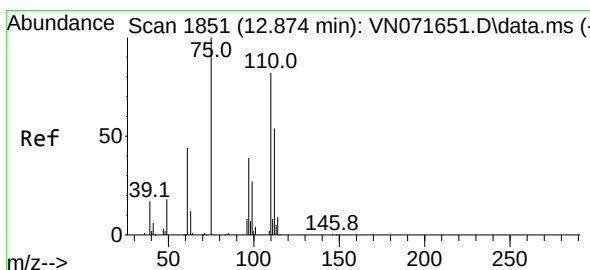
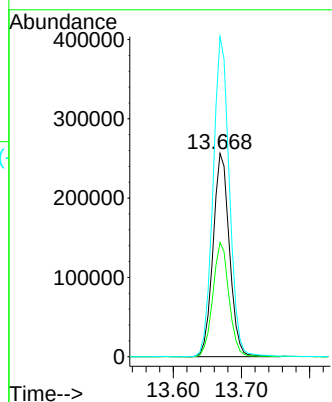
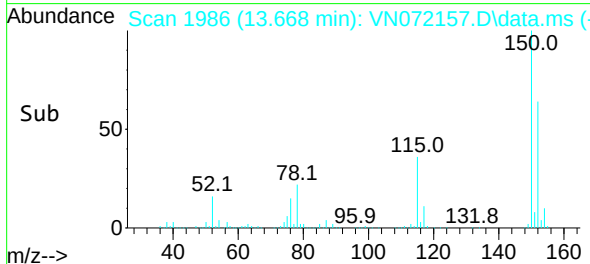


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.668 min Scan# 1986  
 Delta R.T. -0.001 min  
 Lab File: VN072157.D  
 Acq: 22 Apr 2022 15:22

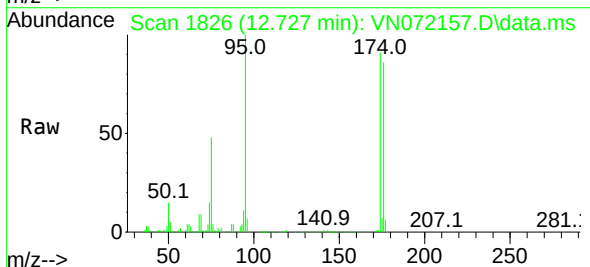
Instrument :  
 MSVOA\_N  
 ClientSampleId :



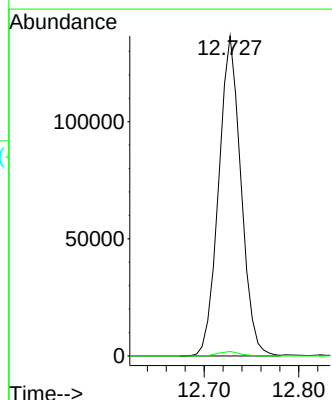
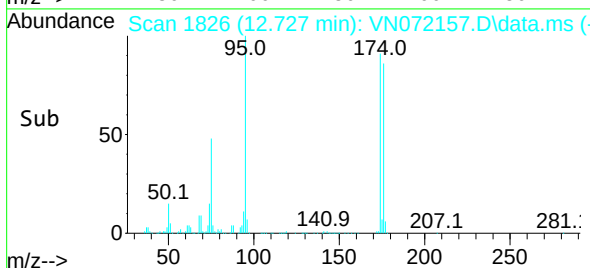
Tgt Ion:152 Resp: 429375  
 Ion Ratio Lower Upper  
 152 100  
 115 55.3 28.9 86.7  
 150 156.6 0.0 356.2



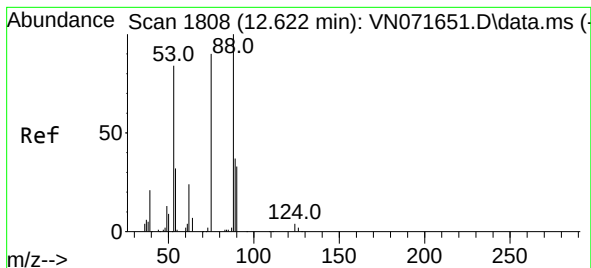
#76  
 1,2,3-Trichloropropane  
 Concen: 22.478 ug/l  
 RT: 12.727 min Scan# 1826  
 Delta R.T. -0.147 min  
 Lab File: VN072157.D  
 Acq: 22 Apr 2022 15:22



Tgt Ion: 75 Resp: 223586  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 98.5 295.5#

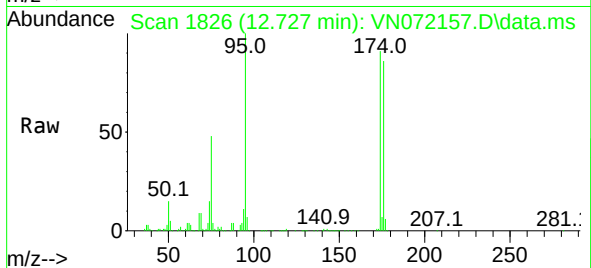




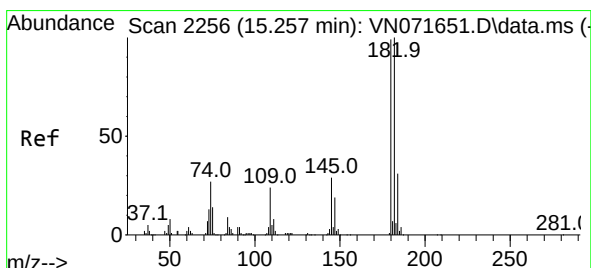
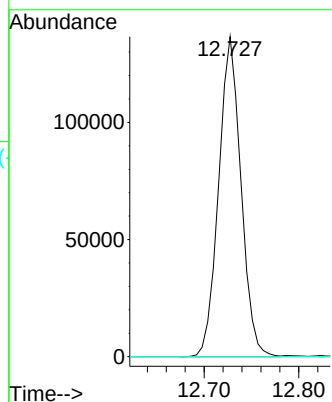
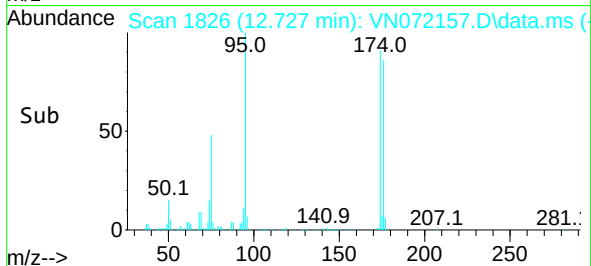


#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 69.659 ug/l  
 RT: 12.727 min Scan# 1826  
 Delta R.T. 0.105 min  
 Lab File: VN072157.D  
 Acq: 22 Apr 2022 15:22

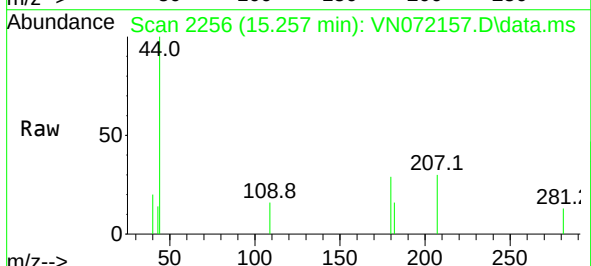
Instrument :  
 MSVOA\_N  
 ClientSampleId :



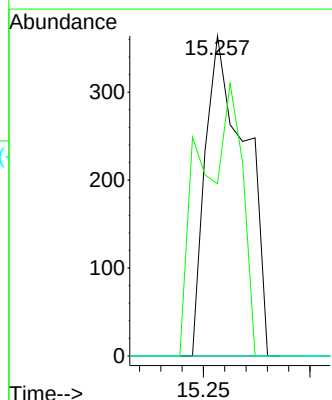
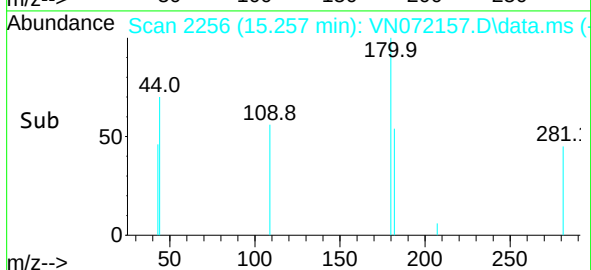
Tgt Ion: 75 Resp: 223586  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 78.0 117.0#  
 89 0.0 37.2 55.8#

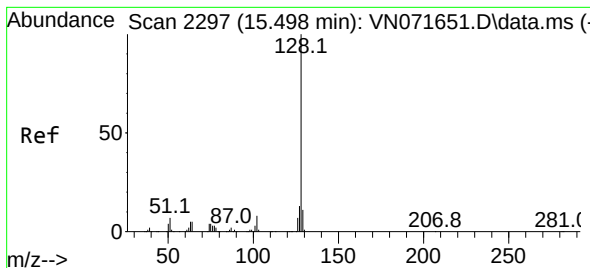


#93  
 1,2,4-Trichlorobenzene  
 Concen: 2.153 ug/l  
 RT: 15.257 min Scan# 2256  
 Delta R.T. -0.000 min  
 Lab File: VN072157.D  
 Acq: 22 Apr 2022 15:22



Tgt Ion: 180 Resp: 477  
 Ion Ratio Lower Upper  
 180 100  
 182 87.4 47.5 142.5  
 145 0.0 14.5 43.5#





#95

Naphthalene

Concen: 3.885 ug/l

RT: 15.498 min Scan# 21

Delta R.T. -0.000 min

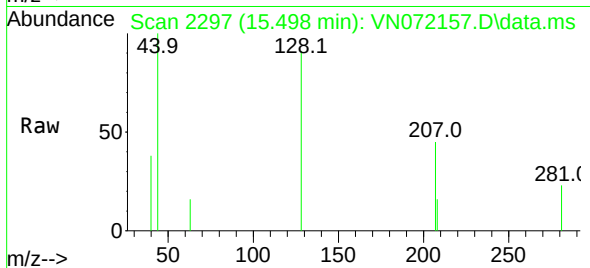
Lab File: VN072157.D

Acq: 22 Apr 2022 15:22

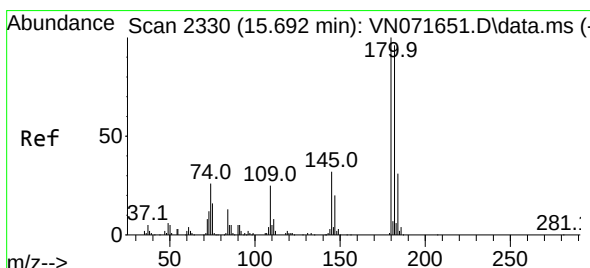
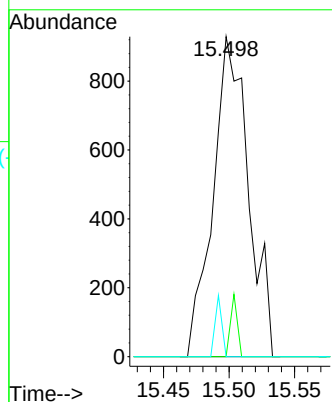
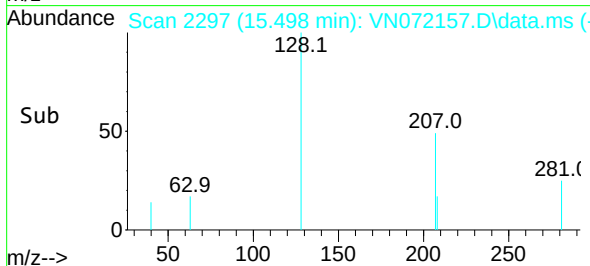
Instrument :

MSVOA\_N

ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 1746  |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 3.7   | 10.3  | 15.5# |
| 129       | 3.6   | 8.6   | 13.0# |



#96

1,2,3-Trichlorobenzene

Concen: 2.509 ug/l

RT: 15.692 min Scan# 2330

Delta R.T. -0.000 min

Lab File: VN072157.D

Acq: 22 Apr 2022 15:22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 658   |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 85.0  | 47.8  | 143.3 |
| 145       | 0.0   | 15.5  | 46.5# |

