

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042821\  
 Data File : VN066849.D  
 Acq On : 29 Apr 2021 6:53  
 Operator : JC/MD  
 Sample : M2196-08  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 53 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

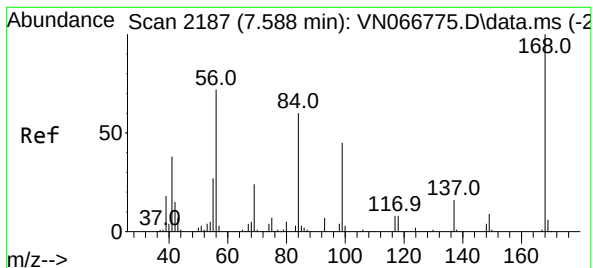
Quant Time: Apr 29 07:47:21 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042721W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 27 16:02:50 2021  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                         |                |      |                    |        |        |          |
| Internal Standards            |                |      |                    |        |        |          |
| 1) Pentafluorobenzene         | 7.594          | 168  | 323829             | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.519          | 114  | 487586             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.351         | 117  | 458917             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.290         | 152  | 184395             | 50.00  | ug/l   | 0.00     |
|                               |                |      |                    |        |        |          |
| System Monitoring Compounds   |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 7.956          | 65   | 177136             | 42.57  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 85.14%  |        |        |          |
| 35) Dibromofluoromethane      | 7.513          | 113  | 158291             | 52.59  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 105.18% |        |        |          |
| 50) Toluene-d8                | 10.029         | 98   | 613173             | 51.90  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 103.80% |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.349         | 95   | 183061             | 45.80  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 91.60%  |        |        |          |
|                               |                |      |                    |        |        |          |
| Target Compounds              |                |      |                    |        |        | Qvalue   |
| 3) Chloromethane              | 2.037          | 50   | 942                | 0.20   | ug/l   | 99       |
| 13) Acrolein                  | 3.557          | 56   | 735                | 1.37   | ug/l # | 77       |
| 16) Acetone                   | 3.758          | 43   | 26456              | 16.85  | ug/l   | 93       |
| 18) Methyl Acetate            | 4.260          | 43   | 4217               | 2.09   | ug/l # | 72       |
| 20) Methylene Chloride        | 4.472          | 84   | 12660              | 3.18   | ug/l   | 96       |
| 25) 2-Butanone                | 6.768          | 43   | 5883               | 2.67   | ug/l   | 94       |
| 31) Cyclohexane               | 7.594          | 56   | 5117               | 0.80   | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.591          | 75   | 21003              | 4.64   | ug/l # | 45       |
| 37) Ethyl Acetate             | 6.768          | 43   | 5883               | 1.22   | ug/l # | 68       |
| 38) Carbon Tetrachloride      | 7.591          | 117  | 26709              | 6.15   | ug/l # | 18       |
| 43) Isopropyl Acetate         | 8.098          | 43   | 24944              | 3.26   | ug/l # | 91       |
| 45) 1,2-Dichloropropane       | 9.208          | 63   | 1869               | 0.50   | ug/l # | 44       |
| 48) Methyl methacrylate       | 9.117          | 41   | 5690               | 1.71   | ug/l # | 10       |
| 51) 4-Methyl-2-Pentanone      | 9.927          | 43   | 5518               | 1.33   | ug/l   | 91       |
| 54) cis-1,3-Dichloropropene   | 9.844          | 75   | 45718              | 7.94   | ug/l # | 59       |
| 56) Ethyl methacrylate        | 10.485         | 69   | 584                | 3.27   | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 10.707         | 76   | 26157              | 4.70   | ug/l # | 43       |
| 59) 2-Hexanone                | 10.707         | 43   | 328706             | 112.20 | ug/l # | 52       |
| 71) Bromoform                 | 12.346         | 173  | 1053               | 0.42   | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.349         | 75   | 83001              | 21.36  | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.349         | 75   | 83001              | 58.30  | ug/l # | 13       |
| -----                         |                |      |                    |        |        |          |

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

Quant Time: Apr 29 07:47:21 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042721W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 27 16:02:50 2021  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.594 min Scan# 2189

Delta R.T. 0.006 min

Lab File: VN066849.D

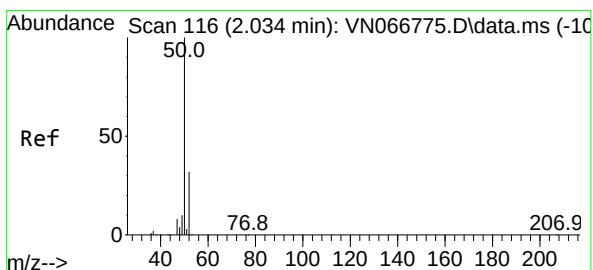
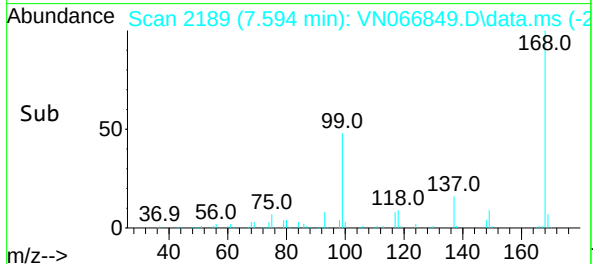
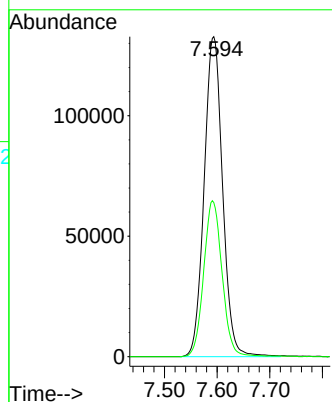
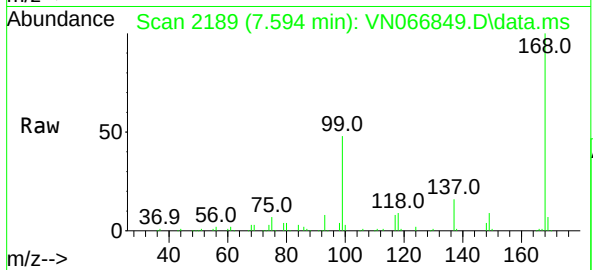
Acq: 29 Apr 2021 6:53

Tgt Ion:168 Resp: 323829

Ion Ratio Lower Upper

168 100

99 48.1 42.6 63.8



#3

Chloromethane

Concen: 0.20 ug/l

RT: 2.037 min Scan# 117

Delta R.T. 0.003 min

Lab File: VN066849.D

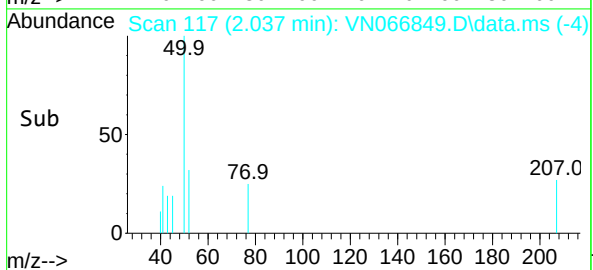
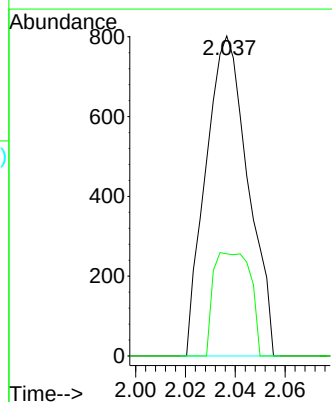
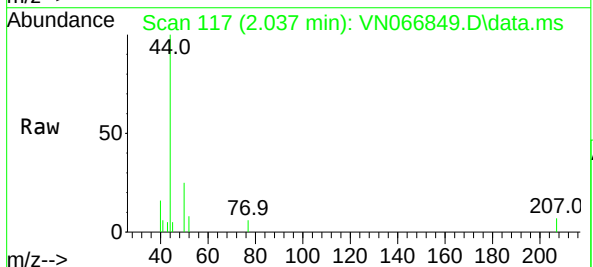
Acq: 29 Apr 2021 6:53

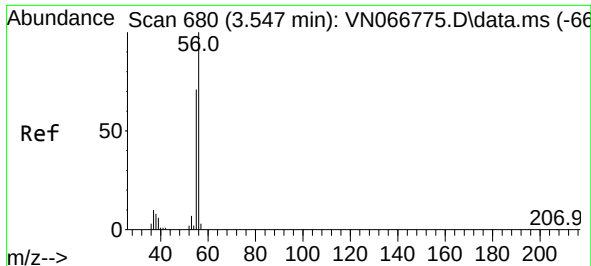
Tgt Ion: 50 Resp: 942

Ion Ratio Lower Upper

50 100

52 31.9 25.8 38.8

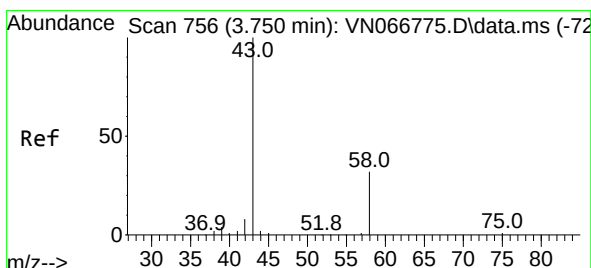
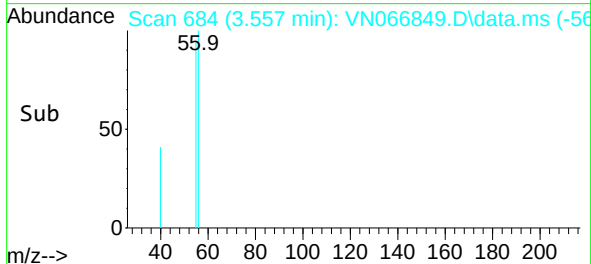
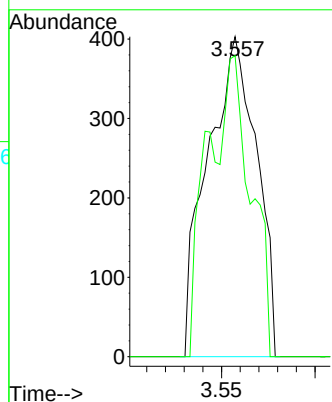
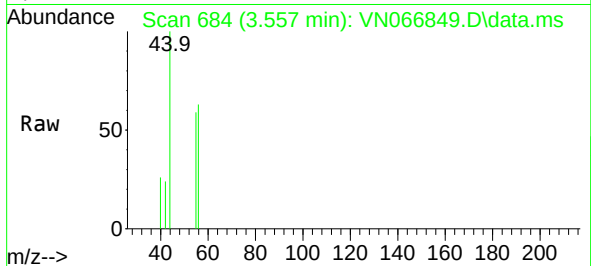




#13  
Acrolein  
Concen: 1.37 ug/l  
RT: 3.557 min Scan# 684  
Delta R.T. 0.010 min  
Lab File: VN066849.D  
Acq: 29 Apr 2021 6:53

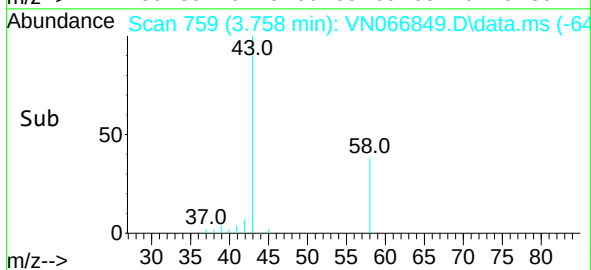
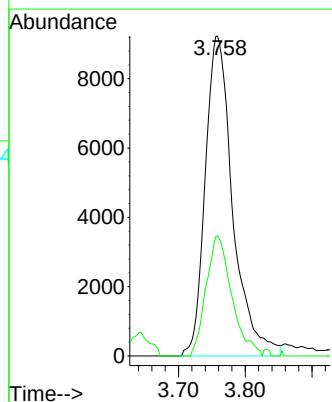
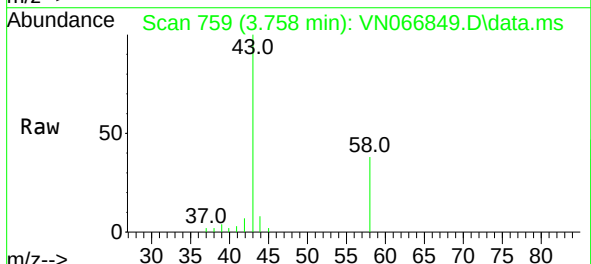
Instrument :  
MSVOA\_N  
ClientSampleId :

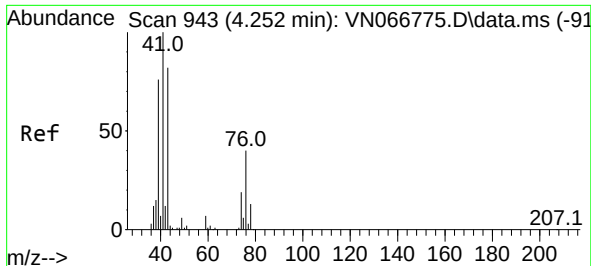
Tgt Ion: 56 Resp: 735  
Ion Ratio Lower Upper  
56 100  
55 51.2 56.0 84.0#



#16  
Acetone  
Concen: 16.85 ug/l  
RT: 3.758 min Scan# 759  
Delta R.T. 0.008 min  
Lab File: VN066849.D  
Acq: 29 Apr 2021 6:53

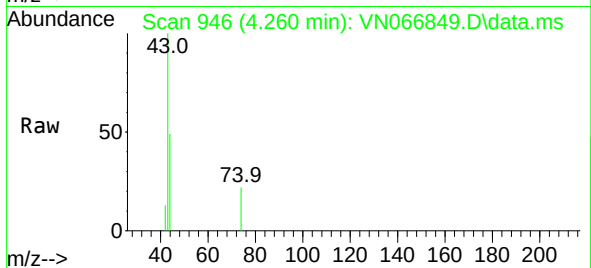
Tgt Ion: 43 Resp: 26456  
Ion Ratio Lower Upper  
43 100  
58 37.6 27.0 40.6



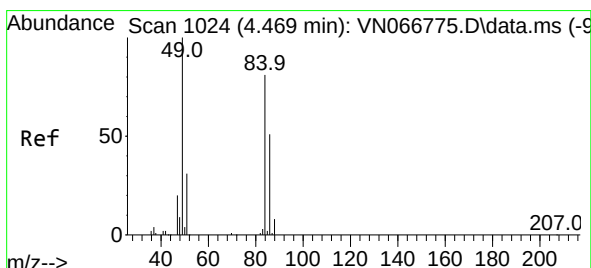
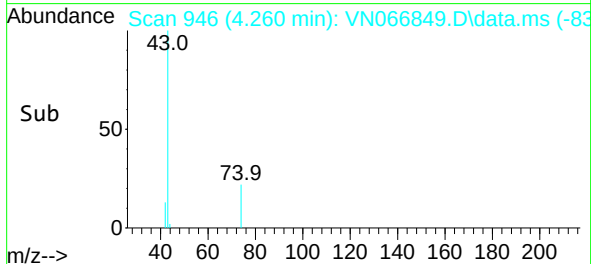
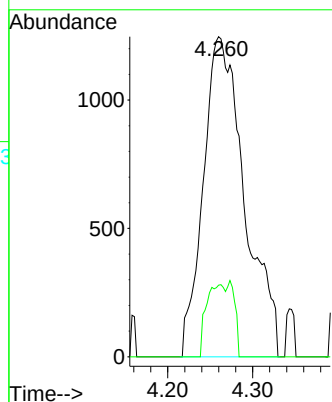


#18  
Methyl Acetate  
Concen: 2.09 ug/l  
RT: 4.260 min Scan# 946  
Delta R.T. 0.008 min  
Lab File: VN066849.D  
Acq: 29 Apr 2021 6:53

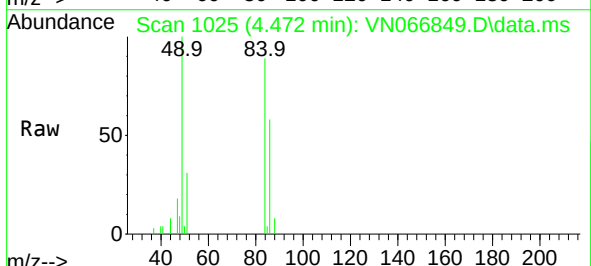
Instrument :  
MSVOA\_N  
ClientSampled :



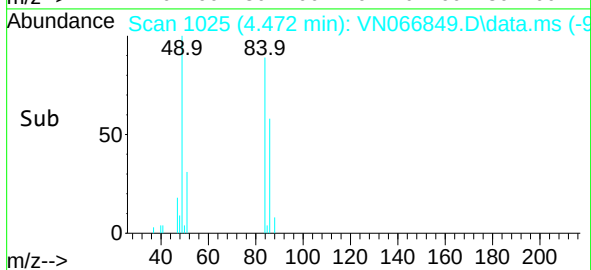
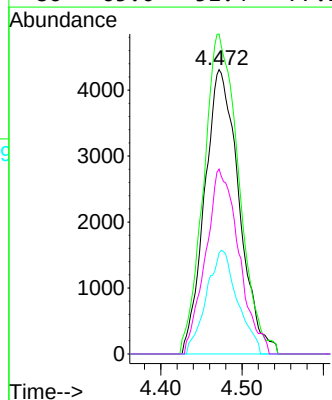
Tgt Ion: 43 Resp: 4217  
Ion Ratio Lower Upper  
43 100  
74 10.3 19.5 29.3#

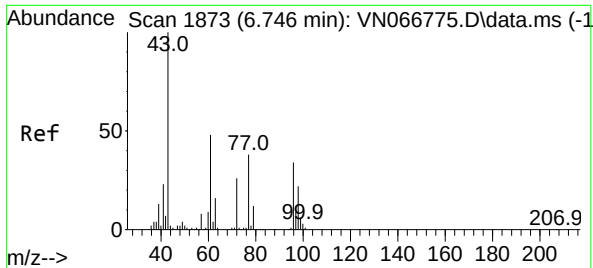


#20  
Methylene Chloride  
Concen: 3.18 ug/l  
RT: 4.472 min Scan# 1025  
Delta R.T. 0.003 min  
Lab File: VN066849.D  
Acq: 29 Apr 2021 6:53



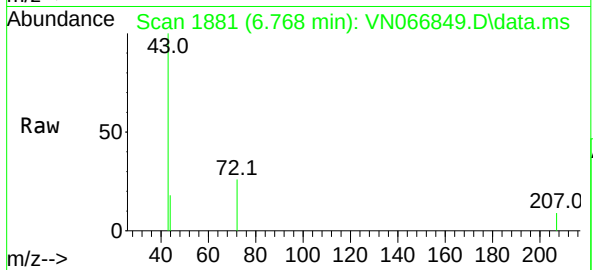
Tgt Ion: 84 Resp: 12660  
Ion Ratio Lower Upper  
84 100  
49 112.6 94.6 141.8  
51 35.5 29.9 44.9  
86 65.0 51.4 77.2



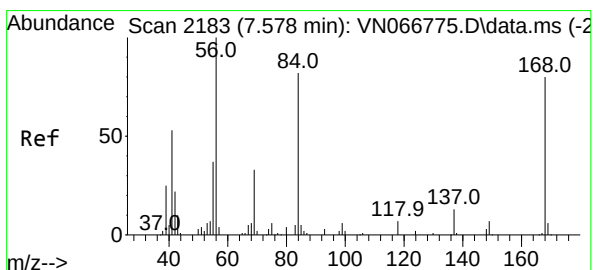
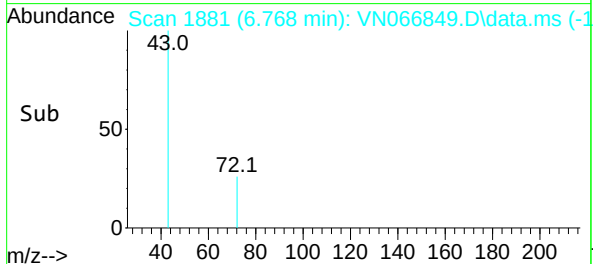
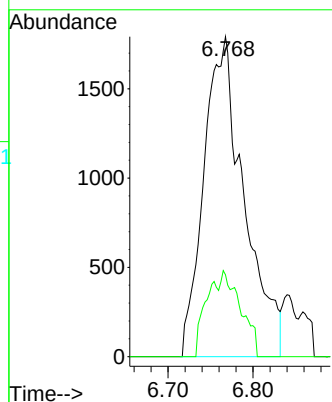


#25  
2-Butanone  
Concen: 2.67 ug/l  
RT: 6.768 min Scan# 1881  
Delta R.T. 0.022 min  
Lab File: VN066849.D  
Acq: 29 Apr 2021 6:53

Instrument :  
MSVOA\_N  
ClientSampled :

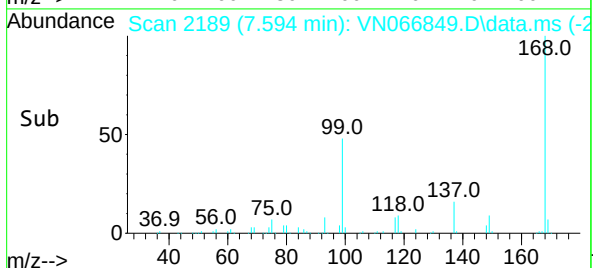
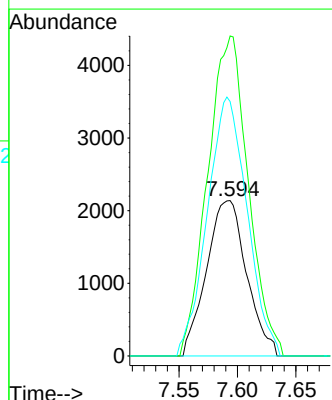
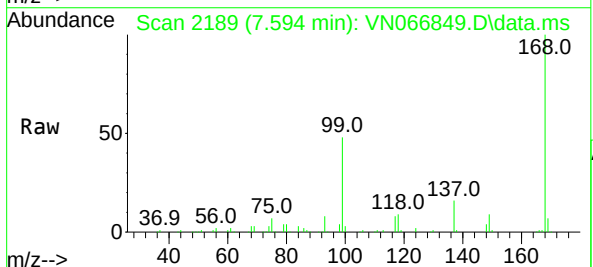


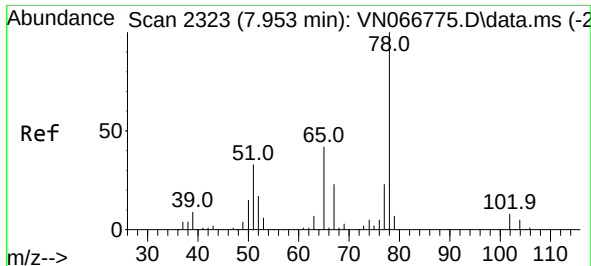
Tgt Ion: 43 Resp: 5883  
Ion Ratio Lower Upper  
43 100  
72 25.6 23.1 34.7



#31  
Cyclohexane  
Concen: 0.80 ug/l  
RT: 7.594 min Scan# 2189  
Delta R.T. 0.016 min  
Lab File: VN066849.D  
Acq: 29 Apr 2021 6:53

Tgt Ion: 56 Resp: 5117  
Ion Ratio Lower Upper  
56 100  
69 205.9 26.6 39.8#  
84 163.7 70.4 105.6#





#33

1,2-Dichloroethane-d4

Concen: 42.57 ug/l

RT: 7.956 min Scan# 2324

Delta R.T. 0.003 min

Lab File: VN066849.D

Acq: 29 Apr 2021 6:53

Tgt Ion: 65 Resp: 177136

Ion Ratio Lower Upper

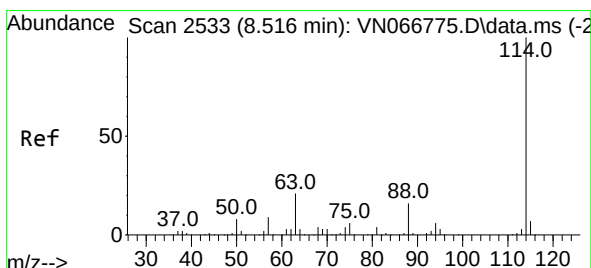
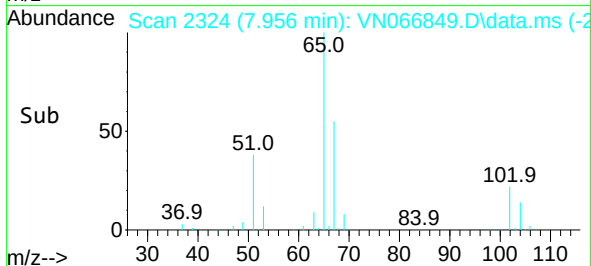
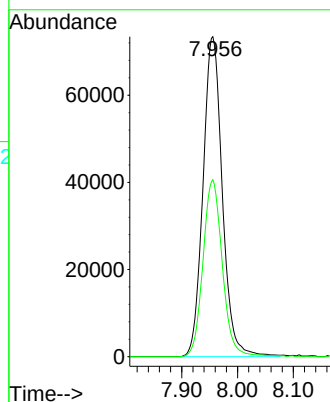
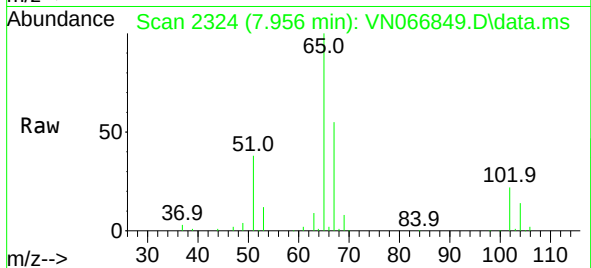
65 100

67 55.3 0.0 107.2

Instrument :

MSVOA\_N

ClientSampled :



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.519 min Scan# 2534

Delta R.T. 0.003 min

Lab File: VN066849.D

Acq: 29 Apr 2021 6:53

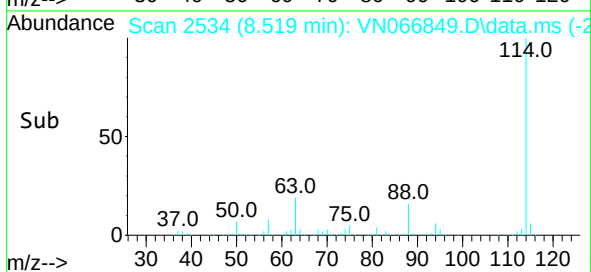
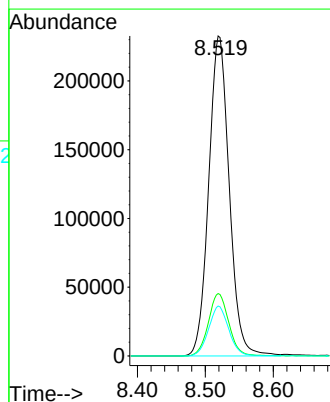
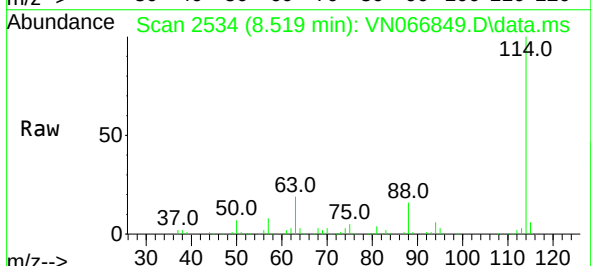
Tgt Ion: 114 Resp: 487586

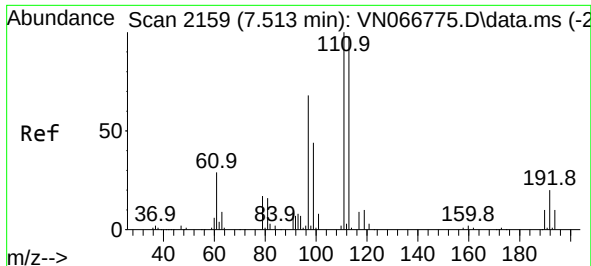
Ion Ratio Lower Upper

114 100

63 19.5 0.0 38.6

88 15.6 0.0 30.6

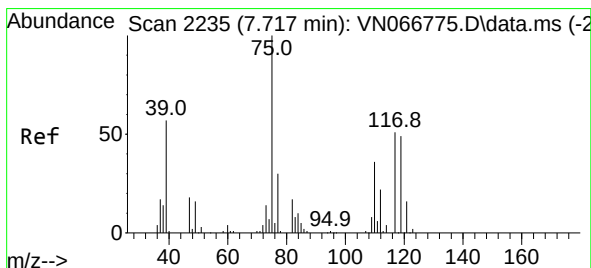
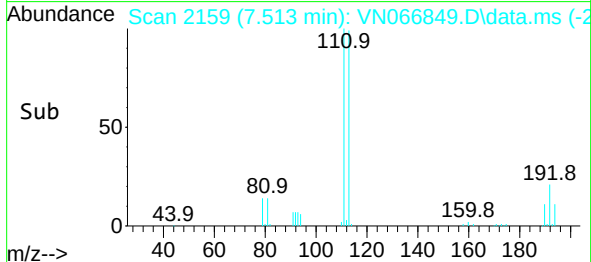
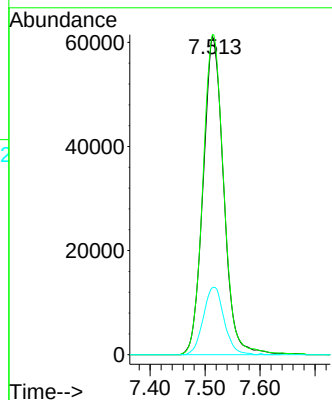
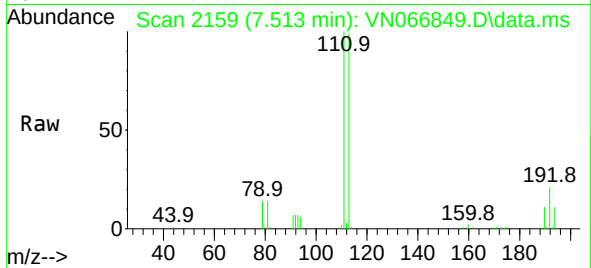




#35  
Dibromofluoromethane  
Concen: 52.59 ug/l  
RT: 7.513 min Scan# 2159  
Delta R.T. 0.000 min  
Lab File: VN066849.D  
Acq: 29 Apr 2021 6:53

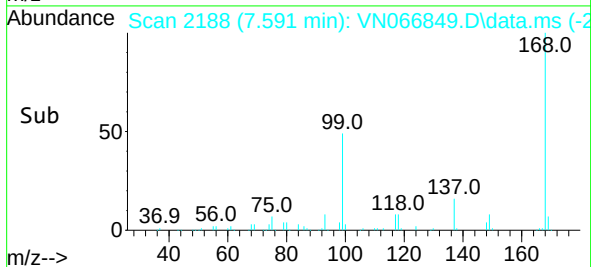
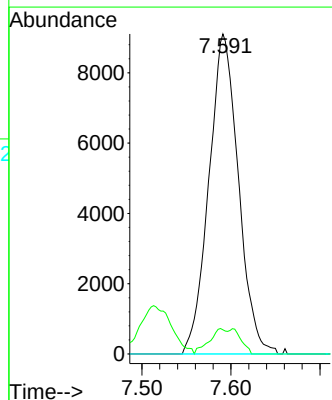
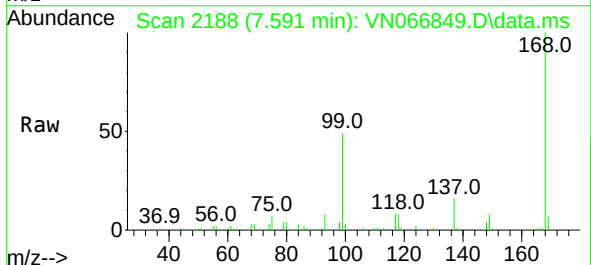
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:113 Resp: 158291  
Ion Ratio Lower Upper  
113 100  
111 102.0 82.2 123.2  
192 21.5 15.4 23.0

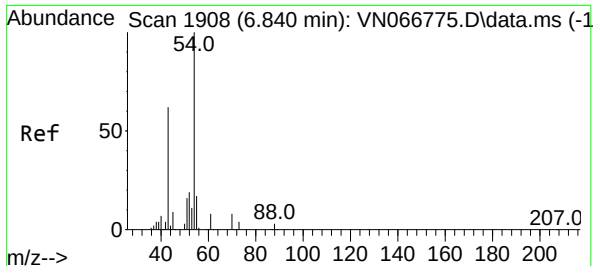


#36  
1,1-Dichloropropene  
Concen: 4.64 ug/l  
RT: 7.591 min Scan# 2188  
Delta R.T. -0.126 min  
Lab File: VN066849.D  
Acq: 29 Apr 2021 6:53

Tgt Ion: 75 Resp: 21003  
Ion Ratio Lower Upper  
75 100  
110 4.8 18.2 54.6#  
77 0.0 24.9 37.3#







#37

Ethyl Acetate

Concen: 1.22 ug/l

RT: 6.768 min Scan# 1881

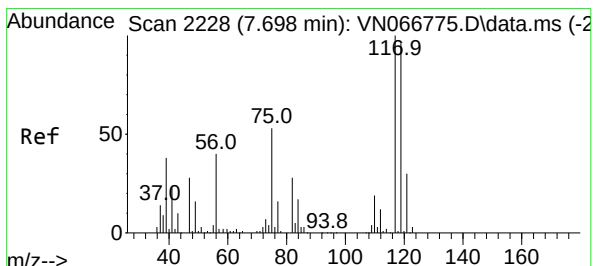
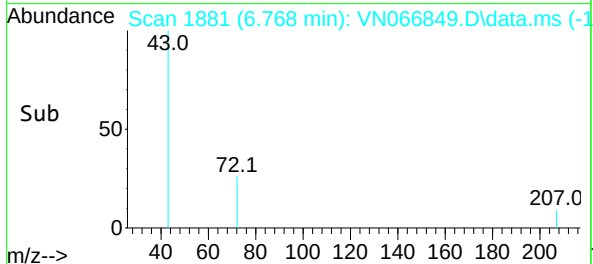
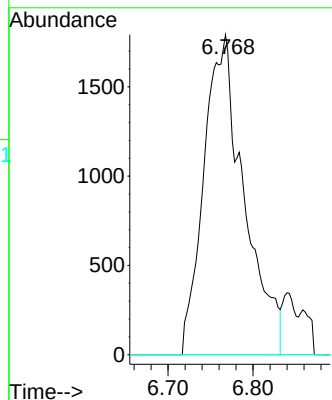
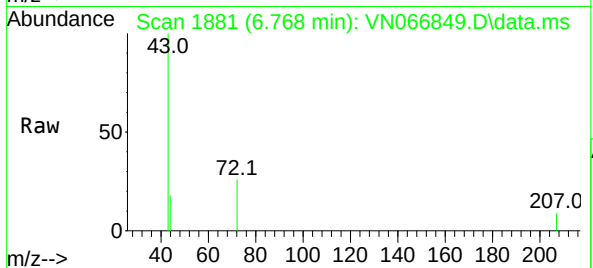
Delta R.T. -0.072 min

Lab File: VN066849.D

Acq: 29 Apr 2021 6:53

Instrument :  
MSVOA\_N  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 5883  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 11.6  | 17.4# |
| 70       | 0.0   | 8.6   | 13.0# |



#38

Carbon Tetrachloride

Concen: 6.15 ug/l

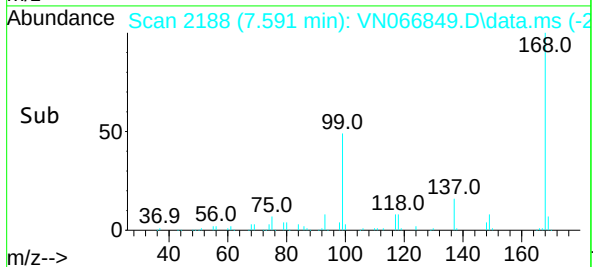
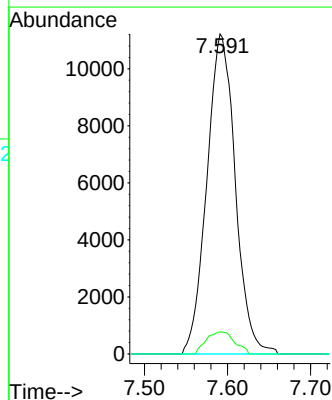
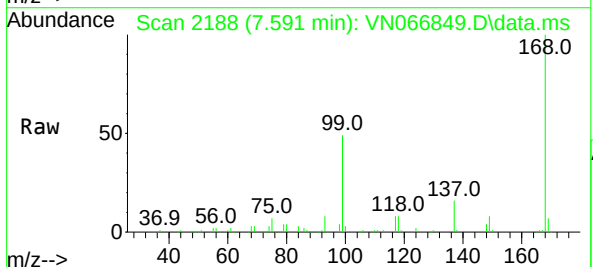
RT: 7.591 min Scan# 2188

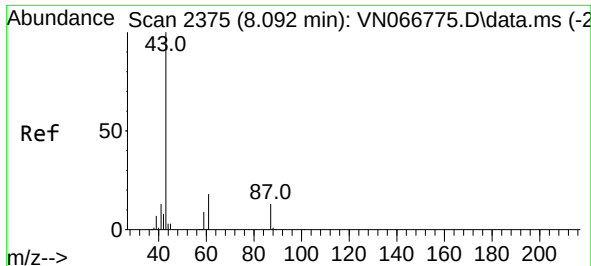
Delta R.T. -0.107 min

Lab File: VN066849.D

Acq: 29 Apr 2021 6:53

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 26709  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 6.9   | 76.0  | 114.0# |
| 121      | 0.0   | 24.5  | 36.7#  |

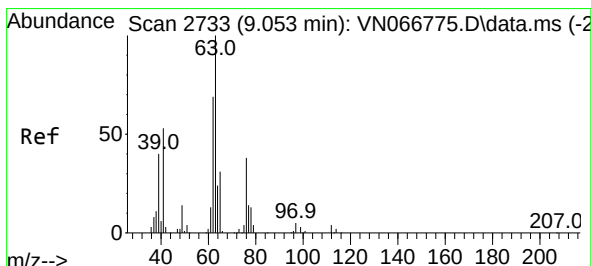
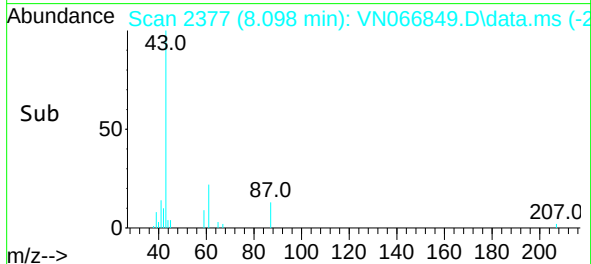
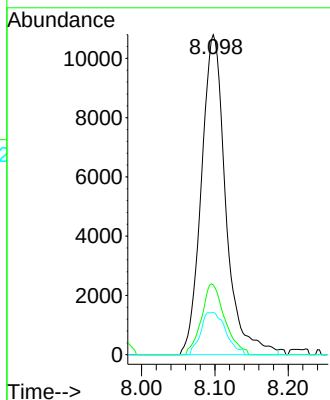
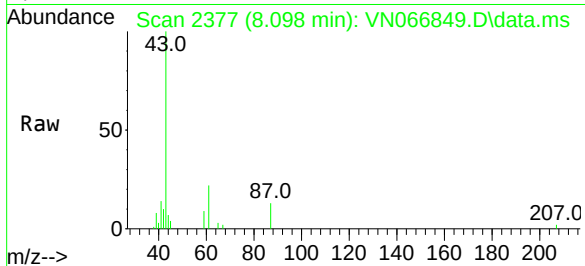




#43  
Isopropyl Acetate  
Concen: 3.26 ug/l  
RT: 8.098 min Scan# 2377  
Delta R.T. 0.006 min  
Lab File: VN066849.D  
Acq: 29 Apr 2021 6:53

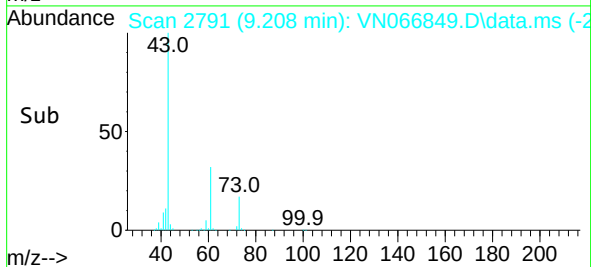
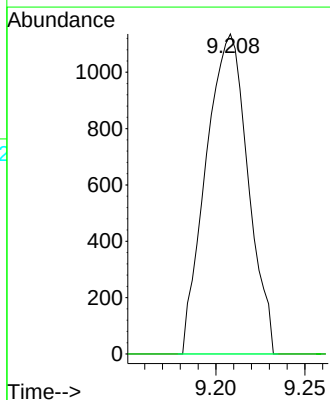
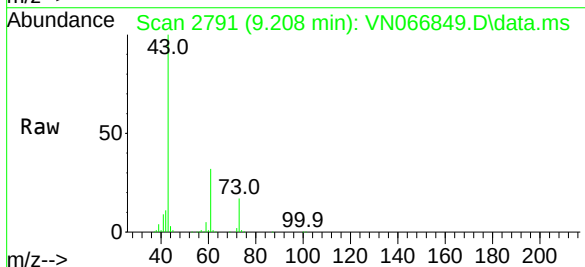
Instrument :  
MSVOA\_N  
ClientSampled :

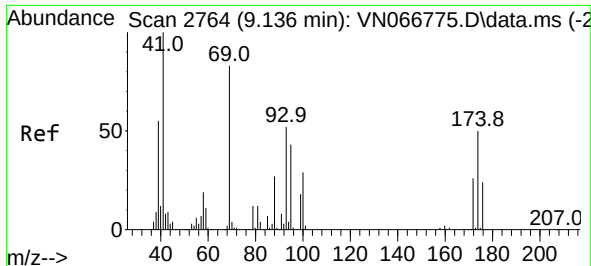
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 21.1  | 22.5  | 33.7# |
| 87      | 13.5  | 11.1  | 16.7  |



#45  
1,2-Dichloropropane  
Concen: 0.50 ug/l  
RT: 9.208 min Scan# 2791  
Delta R.T. 0.155 min  
Lab File: VN066849.D  
Acq: 29 Apr 2021 6:53

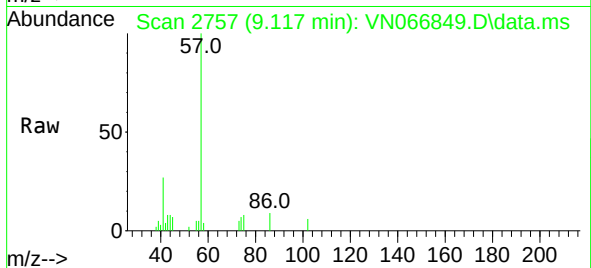
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 0.0   | 24.9  | 37.3# |



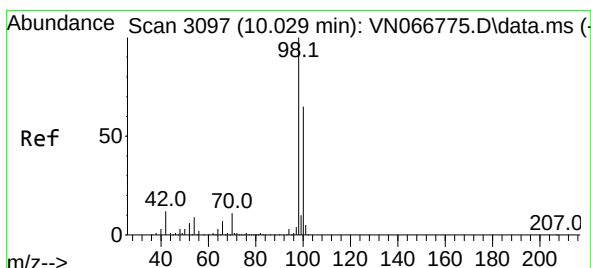
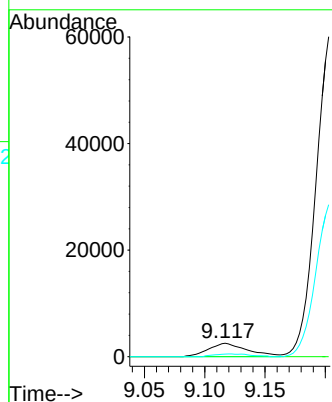
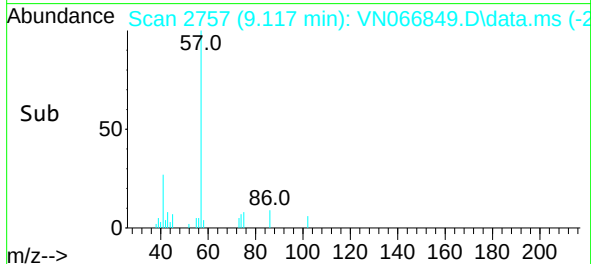


#48  
Methyl methacrylate  
Concen: 1.71 ug/l  
RT: 9.117 min Scan# 2757  
Delta R.T. -0.019 min  
Lab File: VN066849.D  
Acq: 29 Apr 2021 6:53

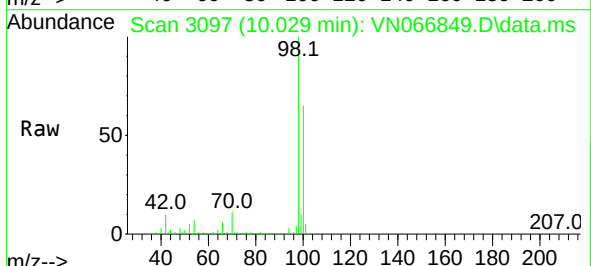
Instrument :  
MSVOA\_N  
ClientSampled :



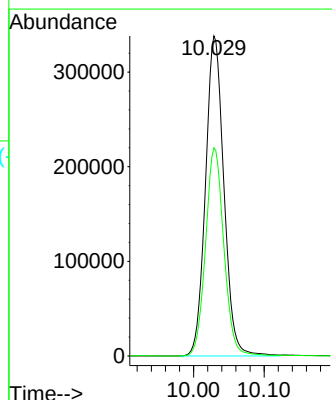
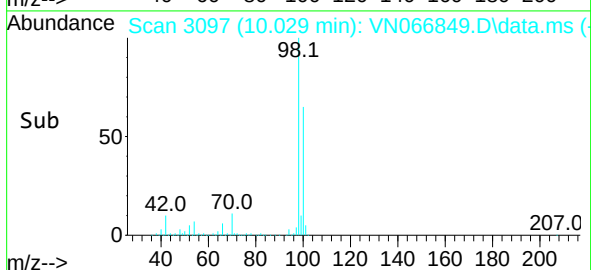
Tgt Ion: 41 Resp: 5690  
Ion Ratio Lower Upper  
41 100  
69 0.0 75.9 113.9#  
39 0.0 46.6 69.8#

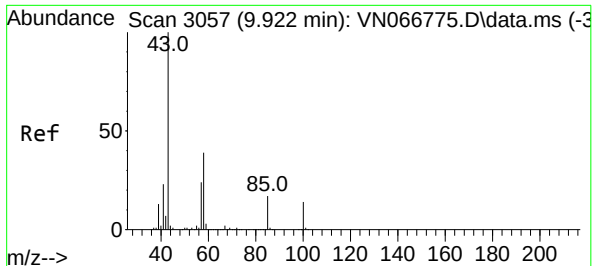


#50  
Toluene-d8  
Concen: 51.90 ug/l  
RT: 10.029 min Scan# 3097  
Delta R.T. -0.000 min  
Lab File: VN066849.D  
Acq: 29 Apr 2021 6:53



Tgt Ion: 98 Resp: 613173  
Ion Ratio Lower Upper  
98 100  
100 64.6 50.5 75.7

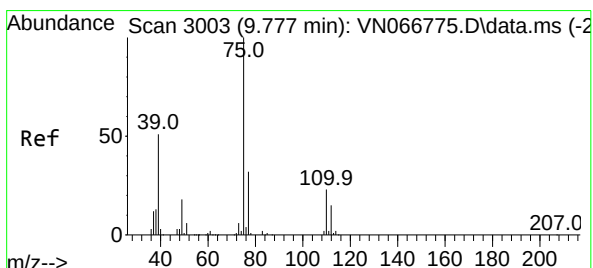
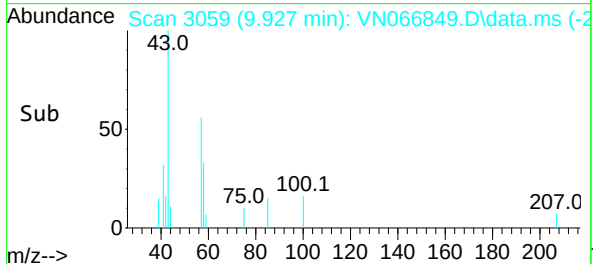
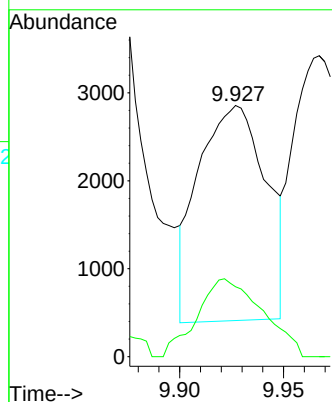
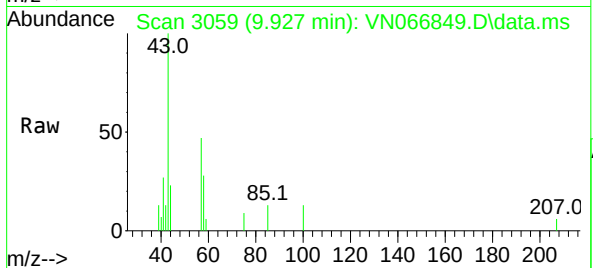




#51  
4-Methyl-2-Pentanone  
Concen: 1.33 ug/l  
RT: 9.927 min Scan# 3059  
Delta R.T. 0.005 min  
Lab File: VN066849.D  
Acq: 29 Apr 2021 6:53

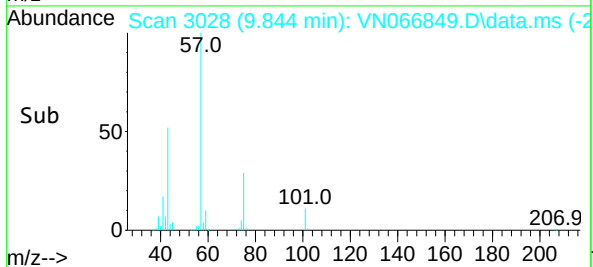
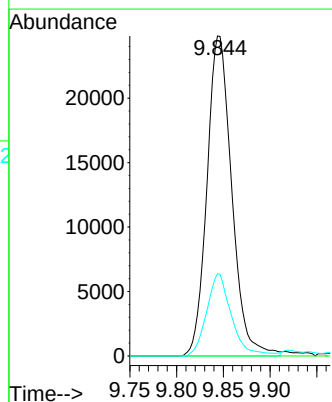
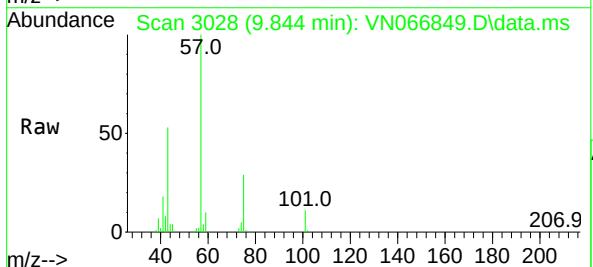
Instrument :  
MSVOA\_N  
ClientSampled :

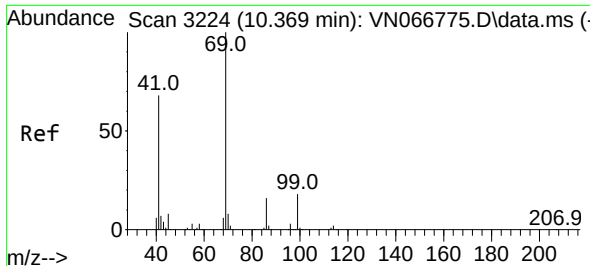
Tgt Ion: 43 Resp: 5518  
Ion Ratio Lower Upper  
43 100  
58 35.1 32.5 48.7



#54  
cis-1,3-Dichloropropene  
Concen: 7.94 ug/l  
RT: 9.844 min Scan# 3028  
Delta R.T. 0.067 min  
Lab File: VN066849.D  
Acq: 29 Apr 2021 6:53

Tgt Ion: 75 Resp: 45718  
Ion Ratio Lower Upper  
75 100  
77 0.0 24.9 37.3#  
39 25.7 36.2 54.4#

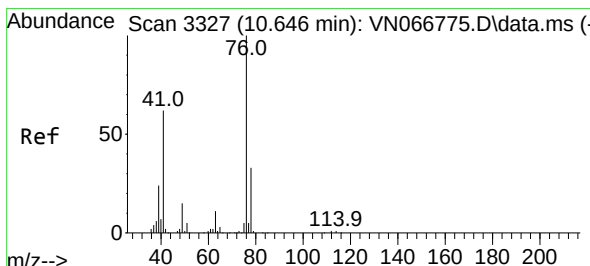
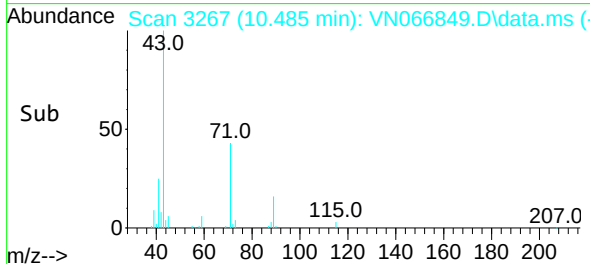
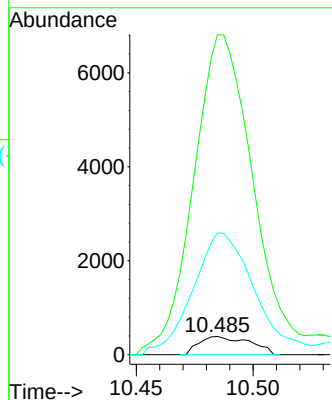
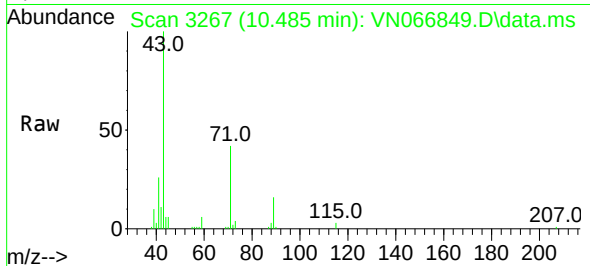




#56  
Ethyl methacrylate  
Concen: 3.27 ug/l  
RT: 10.485 min Scan# 3267  
Delta R.T. 0.116 min  
Lab File: VN066849.D  
Acq: 29 Apr 2021 6:53

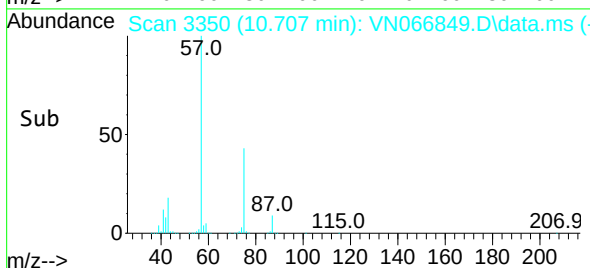
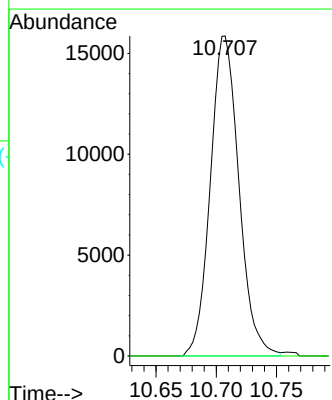
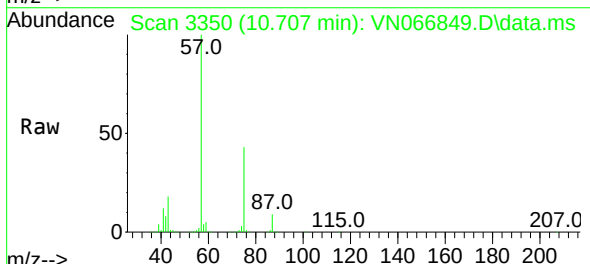
Instrument :  
MSVOA\_N  
ClientSampleId :

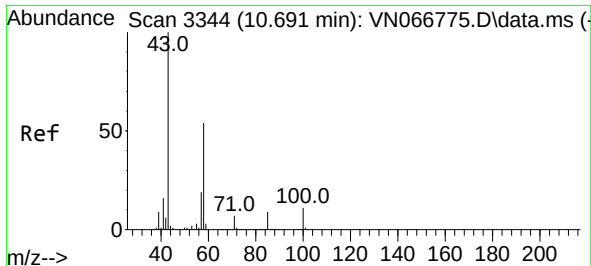
Tgt Ion: 69 Resp: 584  
Ion Ratio Lower Upper  
69 100  
41 2131.7 49.6 74.4#  
39 819.0 28.0 42.0#



#57  
1,3-Dichloropropane  
Concen: 4.70 ug/l  
RT: 10.707 min Scan# 3350  
Delta R.T. 0.061 min  
Lab File: VN066849.D  
Acq: 29 Apr 2021 6:53

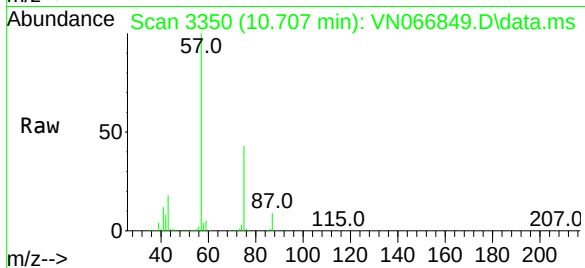
Tgt Ion: 76 Resp: 26157  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.7 38.5#



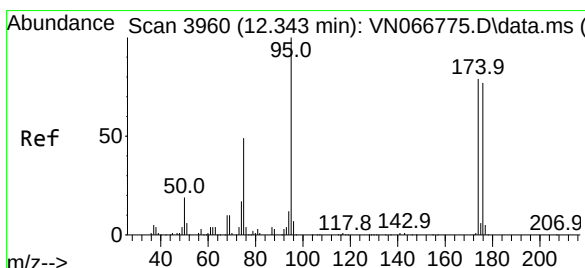
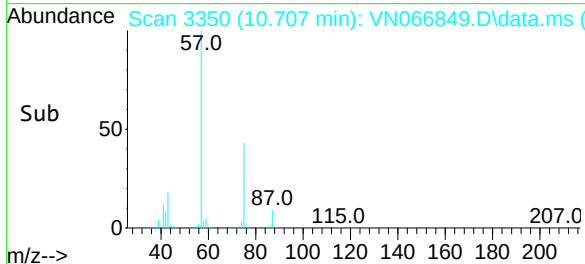
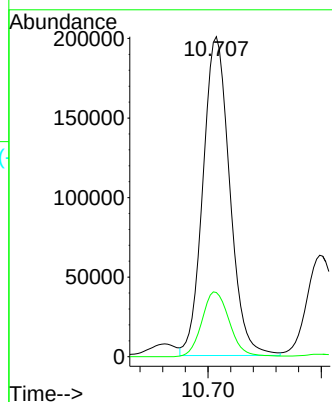


#59  
2-Hexanone  
Concen: 112.20 ug/l  
RT: 10.707 min Scan# 3350  
Delta R.T. 0.016 min  
Lab File: VN066849.D  
Acq: 29 Apr 2021 6:53

Instrument :  
MSVOA\_N  
ClientSampled :

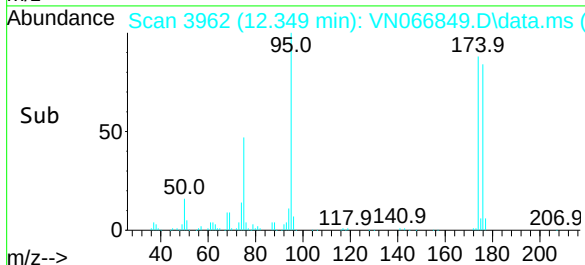
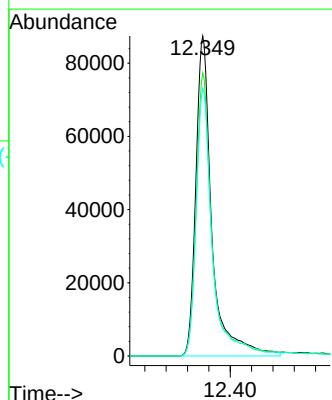
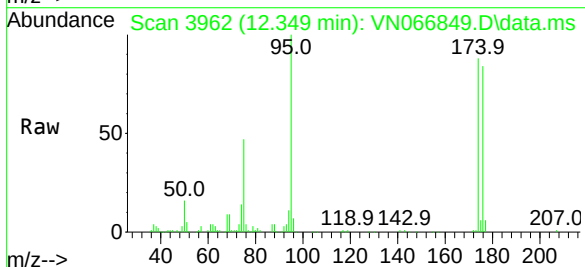


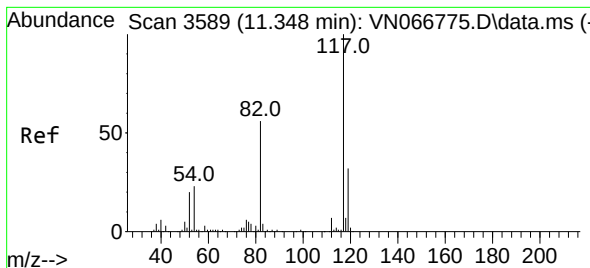
Tgt Ion: 43 Resp: 328706  
Ion Ratio Lower Upper  
43 100  
58 21.0 28.1 84.3#



#62  
4-Bromofluorobenzene  
Concen: 45.80 ug/l  
RT: 12.349 min Scan# 3962  
Delta R.T. 0.006 min  
Lab File: VN066849.D  
Acq: 29 Apr 2021 6:53

Tgt Ion: 95 Resp: 183061  
Ion Ratio Lower Upper  
95 100  
174 87.9 0.0 169.0  
176 84.1 0.0 162.4

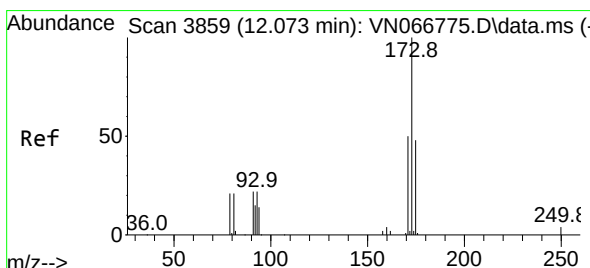
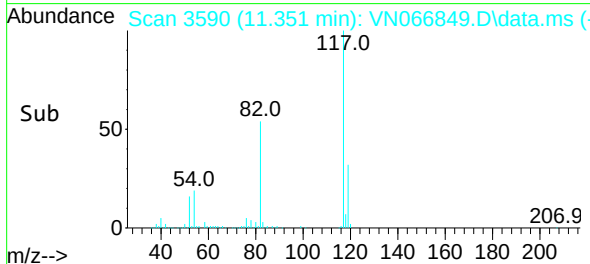
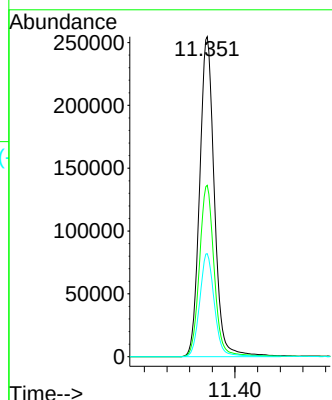
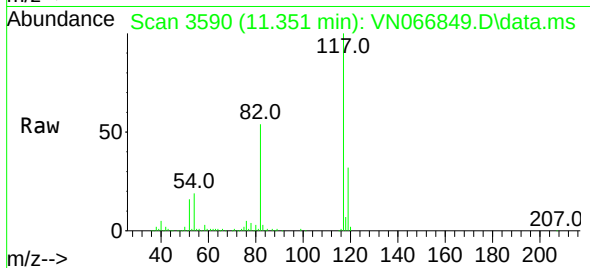




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.351 min Scan# 3590  
Delta R.T. 0.003 min  
Lab File: VN066849.D  
Acq: 29 Apr 2021 6:53

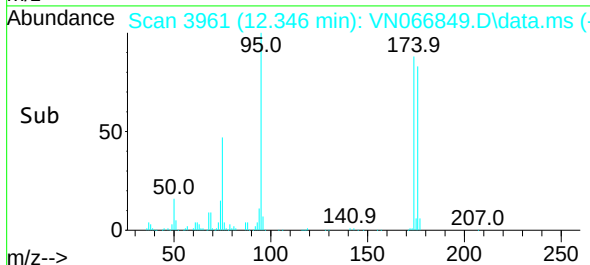
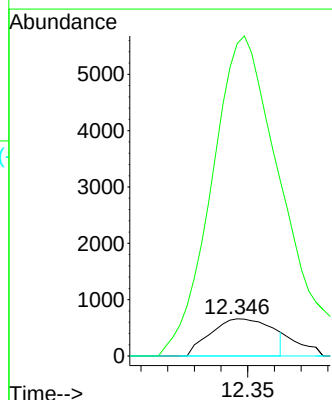
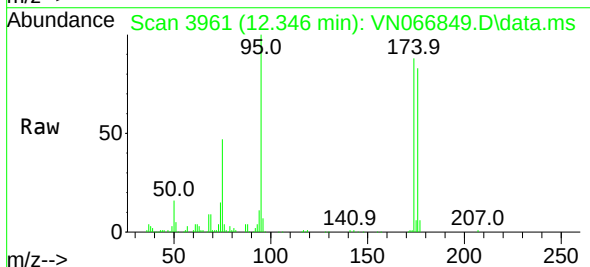
Instrument :  
MSVOA\_N  
ClientSampleId :

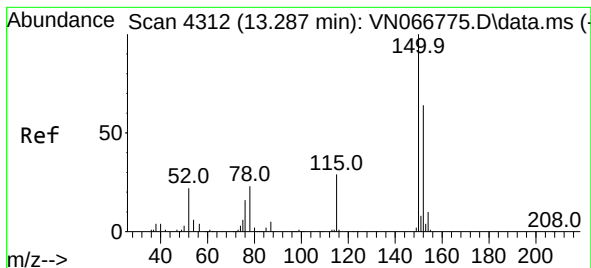
Tgt Ion:117 Resp: 458917  
Ion Ratio Lower Upper  
117 100  
82 53.6 43.7 65.5  
119 32.2 26.1 39.1



#71  
Bromoform  
Concen: 0.42 ug/l  
RT: 12.346 min Scan# 3961  
Delta R.T. 0.273 min  
Lab File: VN066849.D  
Acq: 29 Apr 2021 6:53

Tgt Ion:173 Resp: 1053  
Ion Ratio Lower Upper  
173 100  
175 819.7 23.8 71.2#  
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.290 min Scan# 4313

Delta R.T. 0.003 min

Lab File: VN066849.D

Acq: 29 Apr 2021 6:53

Tgt Ion:152 Resp: 184395

Ion Ratio Lower Upper

152 100

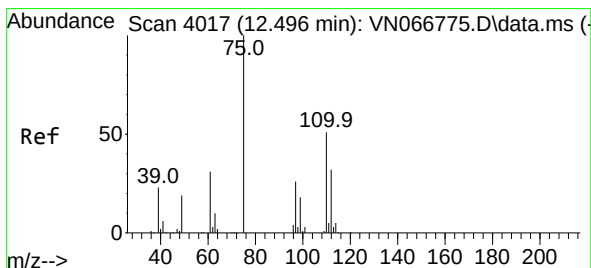
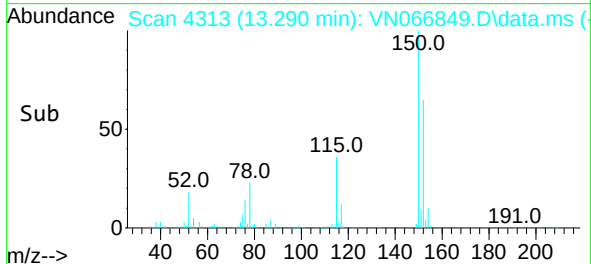
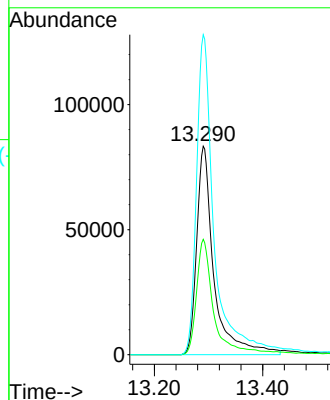
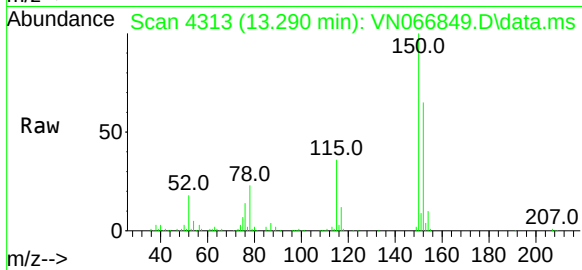
115 55.0 28.5 85.6

150 159.8 0.0 347.6

Instrument :

MSVOA\_N

ClientSampled :



#76

1,2,3-Trichloropropane

Concen: 21.36 ug/l

RT: 12.349 min Scan# 3962

Delta R.T. -0.147 min

Lab File: VN066849.D

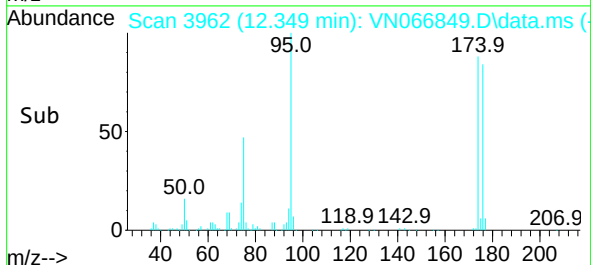
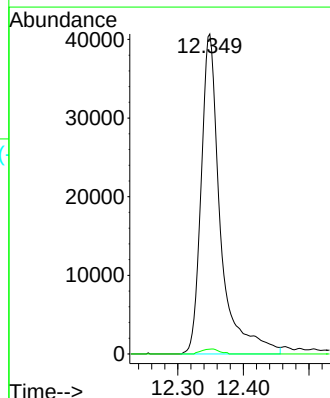
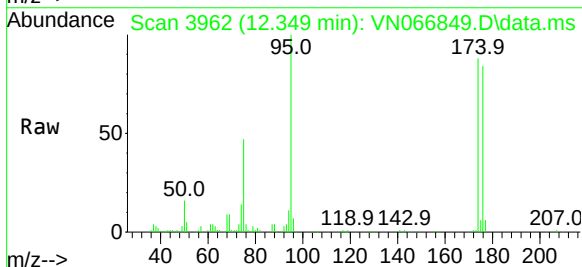
Acq: 29 Apr 2021 6:53

Tgt Ion: 75 Resp: 83001

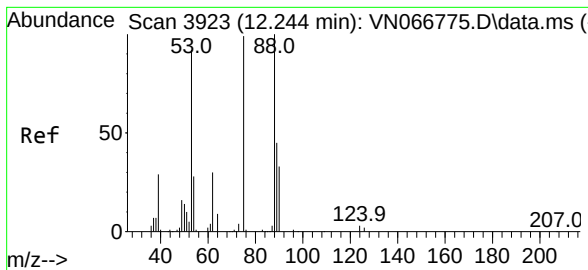
Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#

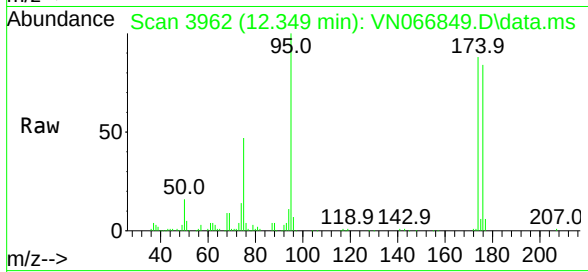






#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 58.30 ug/l  
 RT: 12.349 min Scan# 3962  
 Delta R.T. 0.105 min  
 Lab File: VN066849.D  
 Acq: 29 Apr 2021 6:53

Instrument :  
 MSVOA\_N  
 ClientSampleId :



| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 0.0   | 74.6  | 111.8# |
| 89      | 0.8   | 35.8  | 53.8#  |

