

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031621\  
 Data File : VN066224.D  
 Acq On : 16 Mar 2021 20:34  
 Operator : JC/MD  
 Sample : M1687-38 50X  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Mar 17 05:25:46 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031621W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 17 05:05:15 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| -----                      |        |      |          |       |       |          |
| Internal Standards         |        |      |          |       |       |          |
| 1) Pentafluorobenzene      | 7.585  | 168  | 253673   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.515  | 114  | 414761   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.347 | 117  | 384881   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.286 | 152  | 161967   | 50.00 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 7.949  | 65    | 209482   | 57.32    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 61 - 141 | Recovery | =    | 114.64% |
| 35) Dibromofluoromethane    | 7.507  | 113   | 136940   | 51.75    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 69 - 133 | Recovery | =    | 103.50% |
| 50) Toluene-d8              | 10.028 | 98    | 504683   | 49.33    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 65 - 126 | Recovery | =    | 98.66%  |
| 62) 4-Bromofluorobenzene    | 12.345 | 95    | 162335   | 44.02    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 58 - 135 | Recovery | =    | 88.04%  |

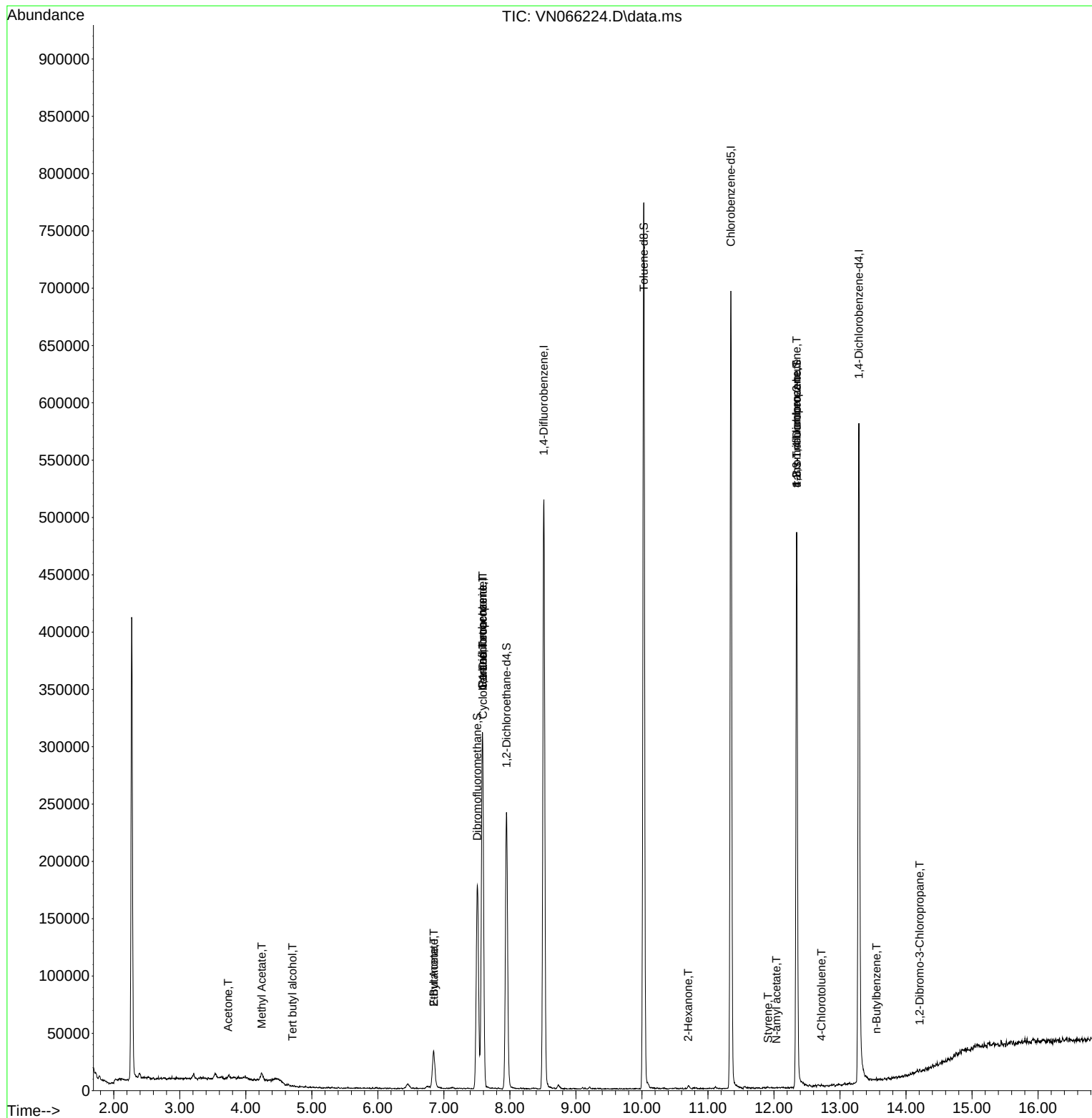
| Target Compounds              |        |     |       |           |        | Qvalue |
|-------------------------------|--------|-----|-------|-----------|--------|--------|
| 11) Tert butyl alcohol        | 4.707  | 59  | 256   | 0.41      | ug/l # | 73     |
| 13) Acrolein                  | 3.537  | 56  | 3881  | Below Cal | #      | 45     |
| 16) Acetone                   | 3.733  | 43  | 1155  | 0.66      | ug/l # | 68     |
| 18) Methyl Acetate            | 4.240  | 43  | 11318 | 2.30      | ug/l # | 82     |
| 25) 2-Butanone                | 6.847  | 43  | 58297 | 21.38     | ug/l # | 56     |
| 31) Cyclohexane               | 7.593  | 56  | 5594  | 1.02      | ug/l # | 1      |
| 36) 1,1-Dichloropropene       | 7.587  | 75  | 20549 | 4.89      | ug/l # | 47     |
| 37) Ethyl Acetate             | 6.847  | 43  | 58297 | 9.71      | ug/l # | 88     |
| 38) Carbon Tetrachloride      | 7.587  | 117 | 23319 | 6.19      | ug/l # | 16     |
| 59) 2-Hexanone                | 10.701 | 43  | 398   | 1.43      | ug/l   | 70     |
| 70) Styrene                   | 11.911 | 104 | 258   | 2.18      | ug/l # | 38     |
| 74) N-amyl acetate            | 12.037 | 43  | 120   | 2.18      | ug/l # | 49     |
| 76) 1,2,3-Trichloropropane    | 12.345 | 75  | 86707 | 20.73     | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.345 | 75  | 86707 | 62.03     | ug/l # | 11     |
| 82) 4-Chlorotoluene           | 12.720 | 91  | 323   | 0.51      | ug/l # | 43     |
| 89) n-Butylbenzene            | 13.555 | 91  | 238   | 2.26      | ug/l # | 40     |
| 92) 1,2-Dibromo-3-Chloropr... | 14.209 | 75  | 229   | 1.09      | ug/l # | 8      |

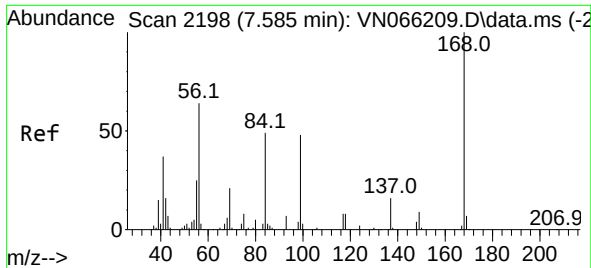
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031621\  
Data File : VN066224.D  
Acq On : 16 Mar 2021 20:34  
Operator : JC/MD  
Sample : M1687-38 50X  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Mar 17 05:25:46 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031621W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 17 05:05:15 2021  
Response via : Initial Calibration

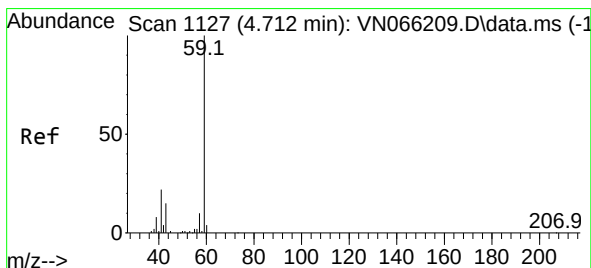
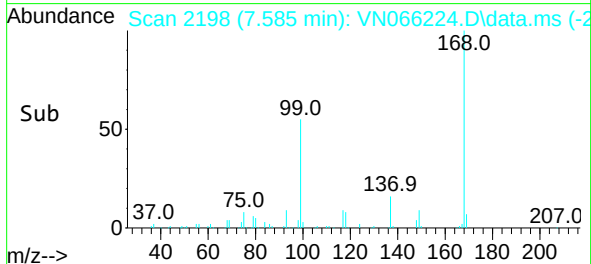
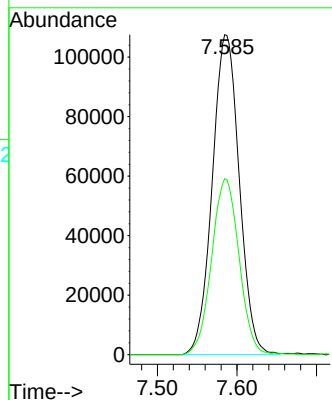
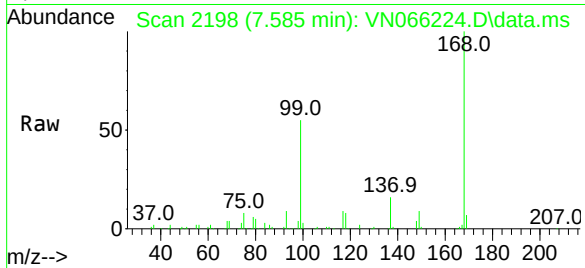




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.585 min Scan# 2198  
Delta R.T. -0.000 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

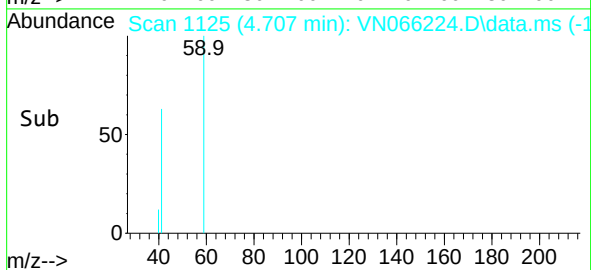
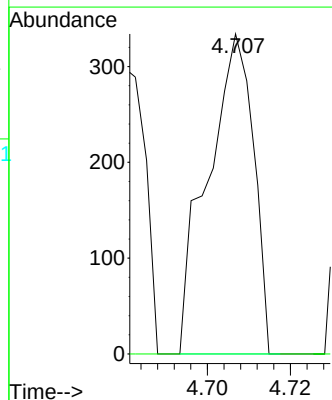
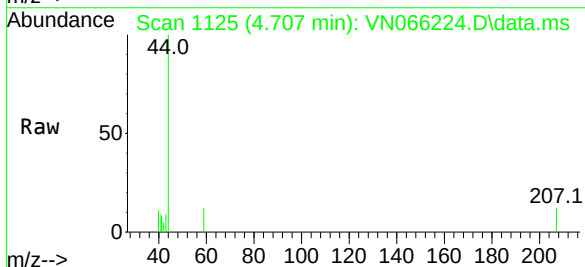
Instrument :  
MSVOA\_N  
ClientSampleId :

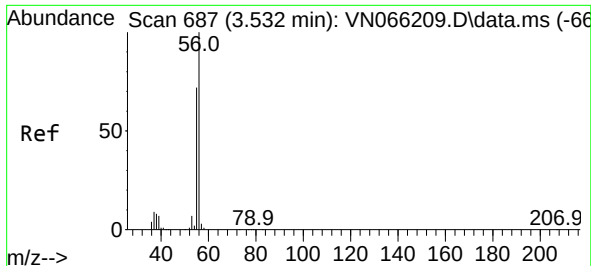
Tgt Ion:168 Resp: 253673  
Ion Ratio Lower Upper  
168 100  
99 55.0 45.4 68.0



#11  
Tert butyl alcohol  
Concen: 0.41 ug/l  
RT: 4.707 min Scan# 1125  
Delta R.T. -0.005 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

Tgt Ion: 59 Resp: 256  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.0 12.0#

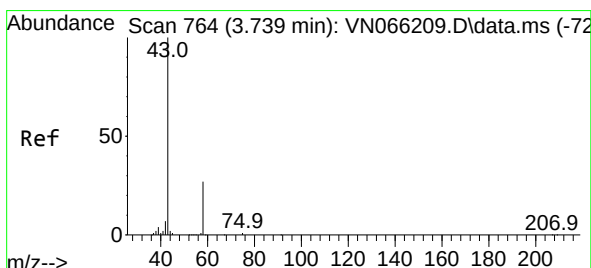
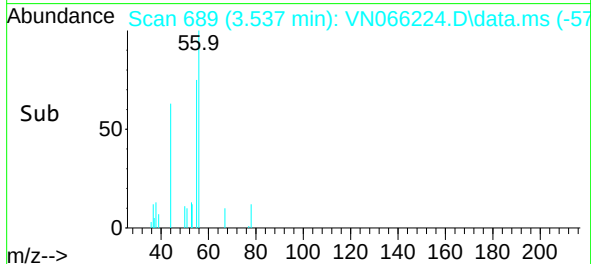
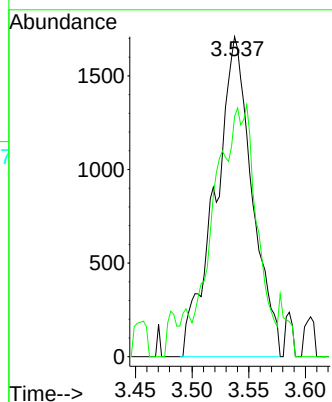
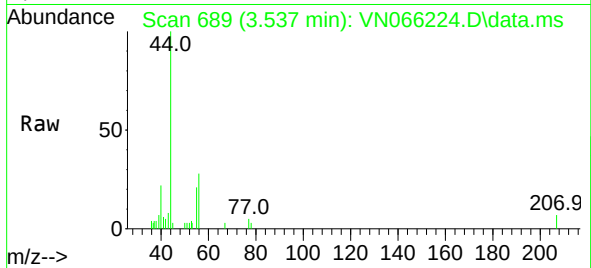




#13  
Acrolein  
Concen: Below Cal  
RT: 3.537 min Scan# 689  
Delta R.T. 0.005 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

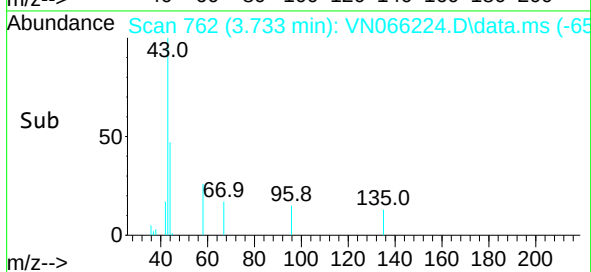
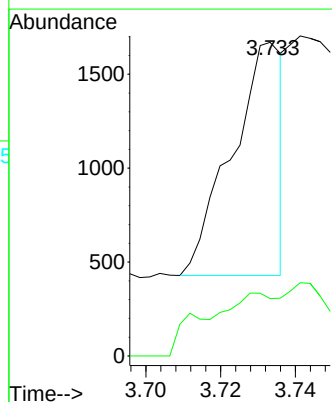
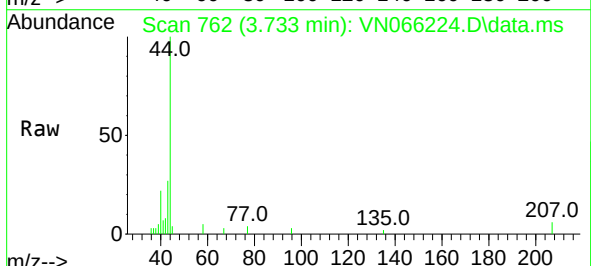
Instrument :  
MSVOA\_N  
ClientSampled :

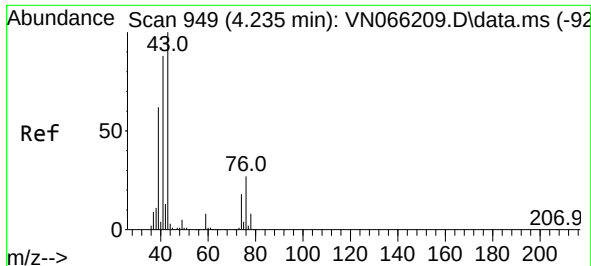
Tgt Ion: 56 Resp: 3881  
Ion Ratio Lower Upper  
56 100  
55 26.7 58.0 87.0#



#16  
Acetone  
Concen: 0.66 ug/l  
RT: 3.733 min Scan# 762  
Delta R.T. -0.006 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

Tgt Ion: 43 Resp: 1155  
Ion Ratio Lower Upper  
43 100  
58 11.0 22.3 33.5#

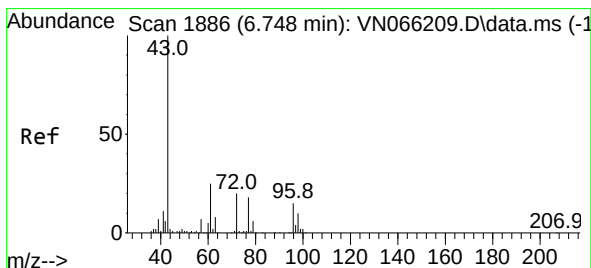
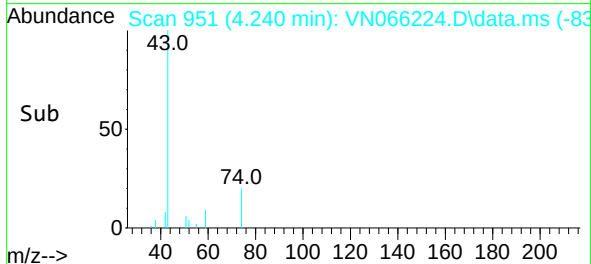
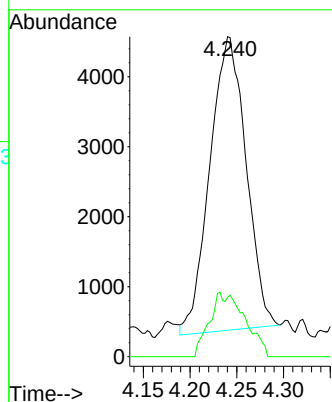
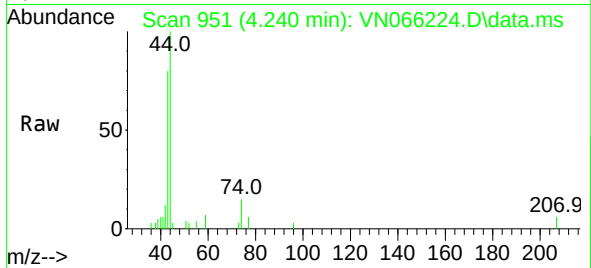




#18  
Methyl Acetate  
Concen: 2.30 ug/l  
RT: 4.240 min Scan# 951  
Delta R.T. 0.005 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

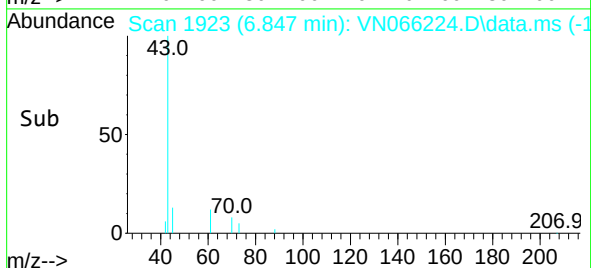
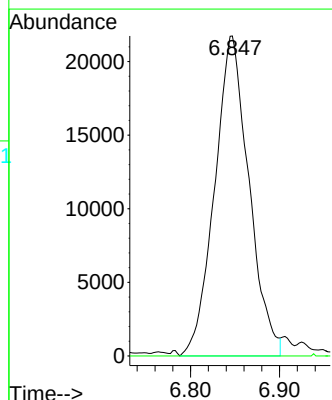
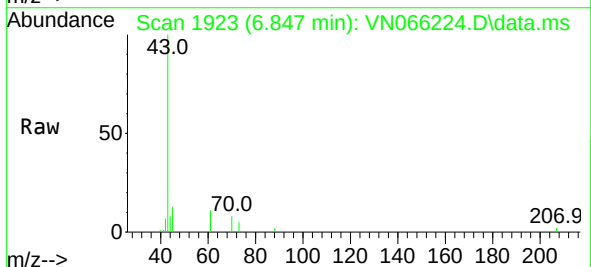
Instrument :  
MSVOA\_N  
ClientSampleId :

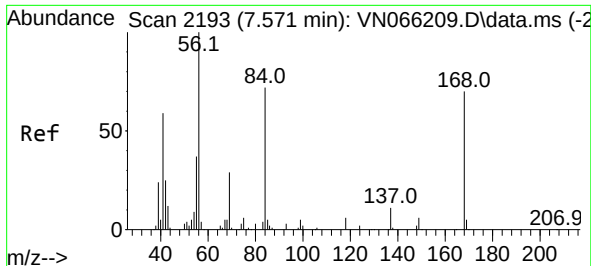
Tgt Ion: 43 Resp: 11318  
Ion Ratio Lower Upper  
43 100  
74 9.6 14.2 21.2#



#25  
2-Butanone  
Concen: 21.38 ug/l  
RT: 6.847 min Scan# 1923  
Delta R.T. 0.099 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

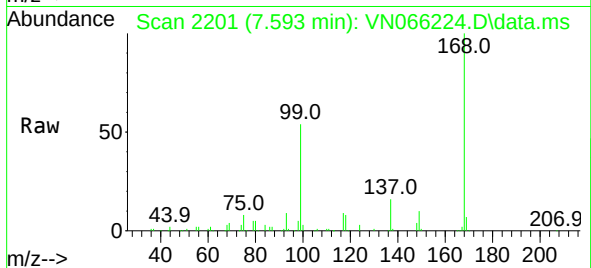
Tgt Ion: 43 Resp: 58297  
Ion Ratio Lower Upper  
43 100  
72 0.0 16.2 24.2#



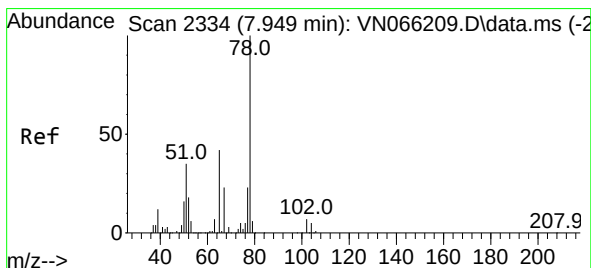
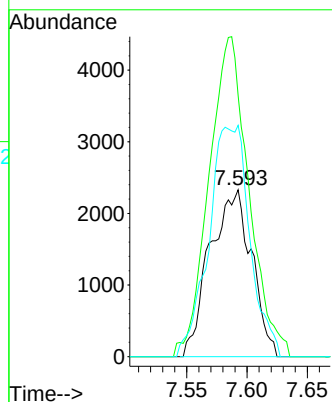
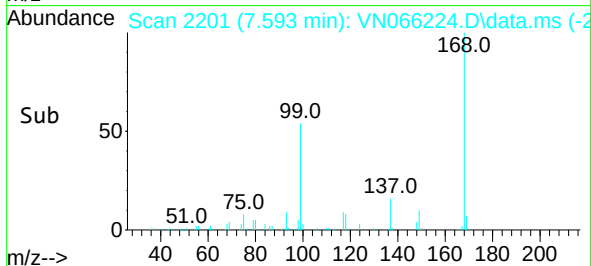


#31  
Cyclohexane  
Concen: 1.02 ug/l  
RT: 7.593 min Scan# 2201  
Delta R.T. 0.022 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

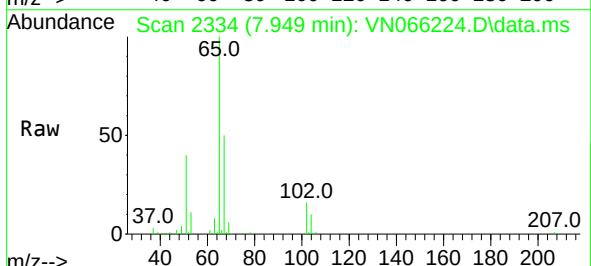
Instrument :  
MSVOA\_N  
ClientSampleId :



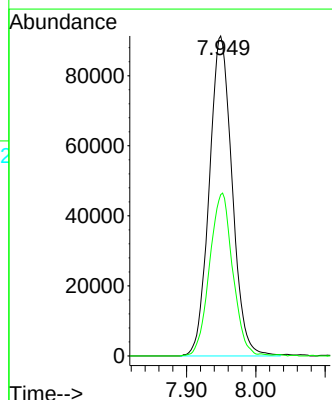
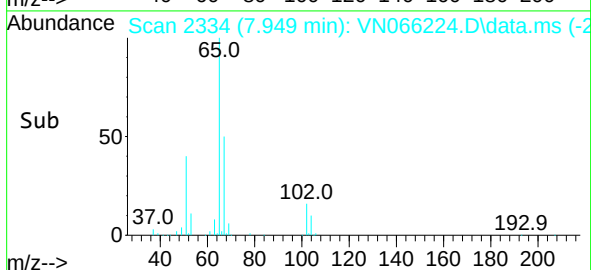
Tgt Ion: 56 Resp: 5594  
Ion Ratio Lower Upper  
56 100  
69 148.0 23.4 35.0#  
84 138.6 57.8 86.6#

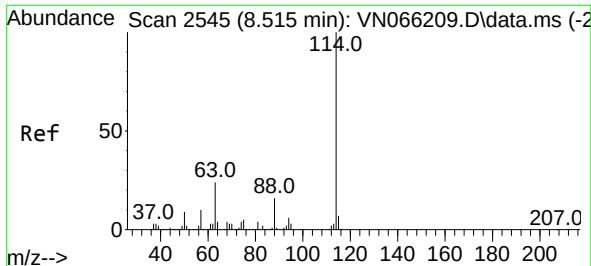


#33  
1,2-Dichloroethane-d4  
Concen: 57.32 ug/l  
RT: 7.949 min Scan# 2334  
Delta R.T. 0.000 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34



Tgt Ion: 65 Resp: 209482  
Ion Ratio Lower Upper  
65 100  
67 51.3 0.0 107.2

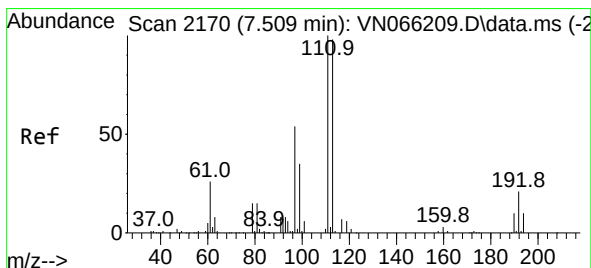
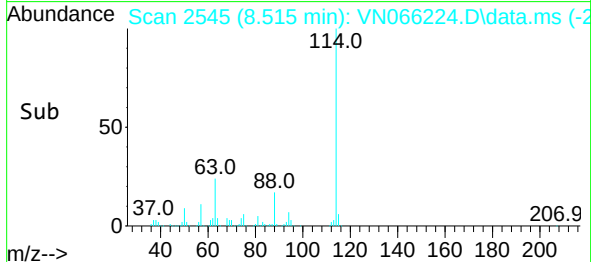
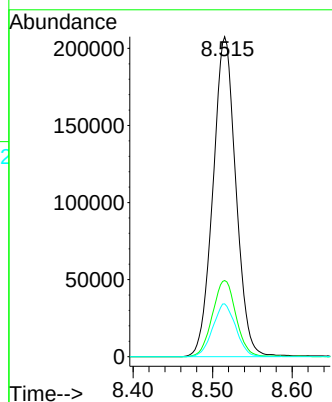
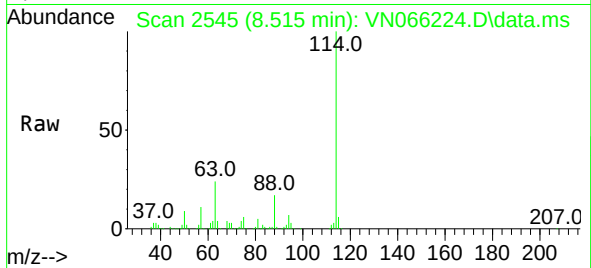




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.515 min Scan# 2545  
Delta R.T. 0.000 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

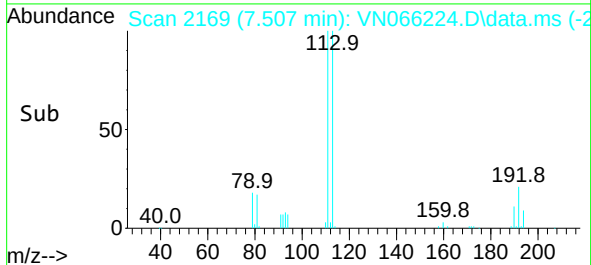
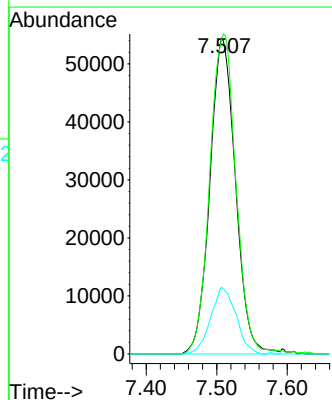
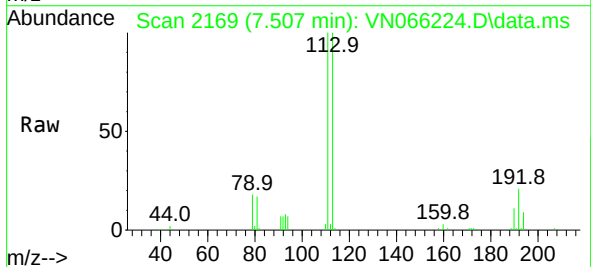
Instrument :  
MSVOA\_N  
ClientSampled :

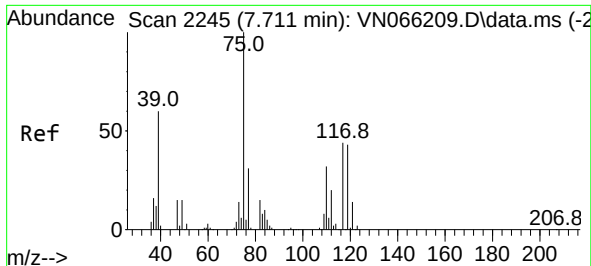
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Ion Ratio Lower Upper  
114 100  
63 23.8 0.0 49.2  
88 16.5 0.0 33.8



#35  
Dibromofluoromethane  
Concen: 51.75 ug/l  
RT: 7.507 min Scan# 2169  
Delta R.T. -0.002 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

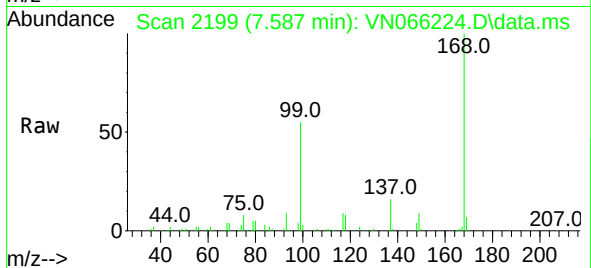
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Ion Ratio Lower Upper  
113 100  
111 103.4 84.0 126.0  
192 21.0 16.7 25.1



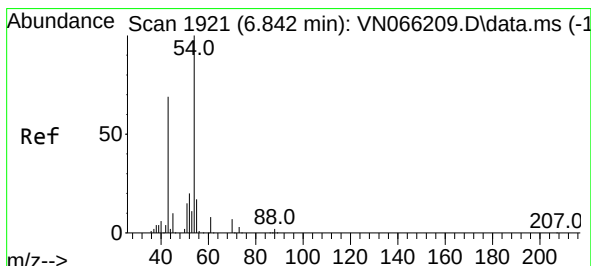
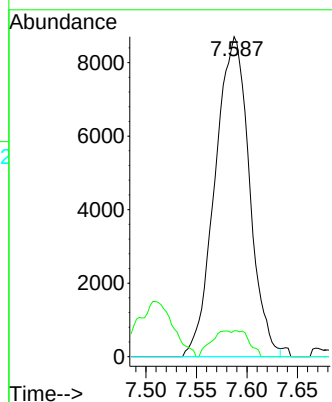
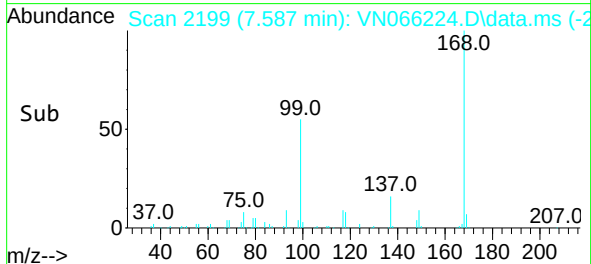


#36  
1,1-Dichloropropene  
Concen: 4.89 ug/l  
RT: 7.587 min Scan# 2199  
Delta R.T. -0.124 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

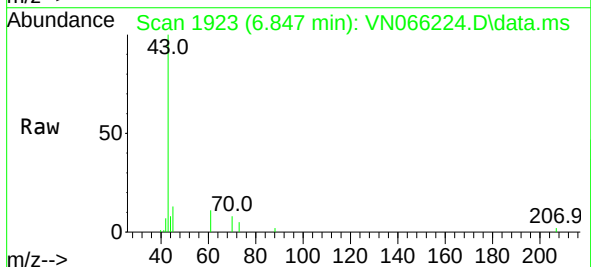
Instrument :  
MSVOA\_N  
ClientSampled :



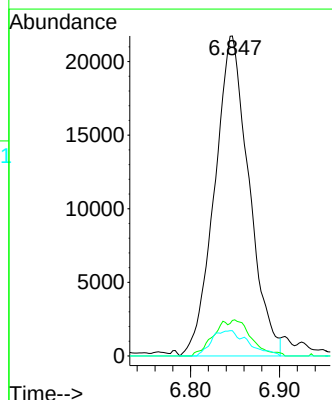
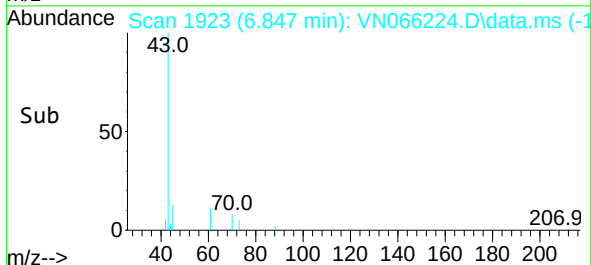
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Ion Ratio Lower Upper  
75 100  
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77 0.0 24.9 37.3#



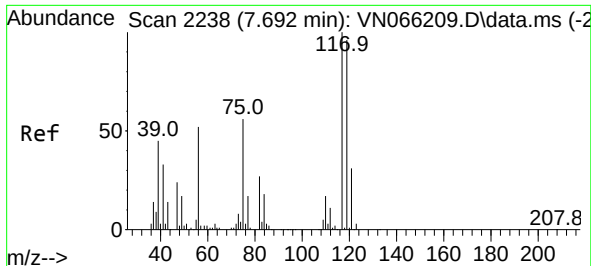
#37  
Ethyl Acetate  
Concen: 9.71 ug/l  
RT: 6.847 min Scan# 1923  
Delta R.T. 0.005 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34



Tgt Ion: 43 Resp: 58297  
Ion Ratio Lower Upper  
43 100  
61 5.1 9.2 13.8#  
70 5.9 6.1 9.1#

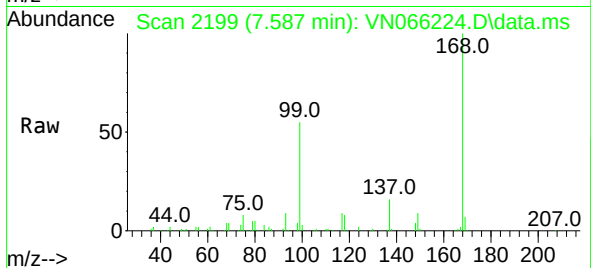




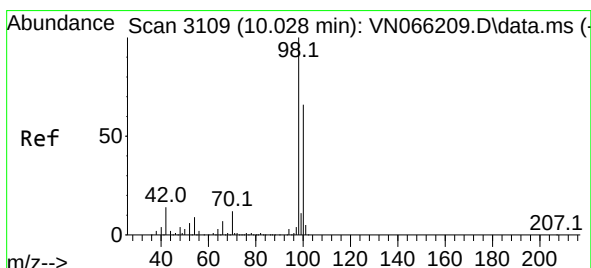
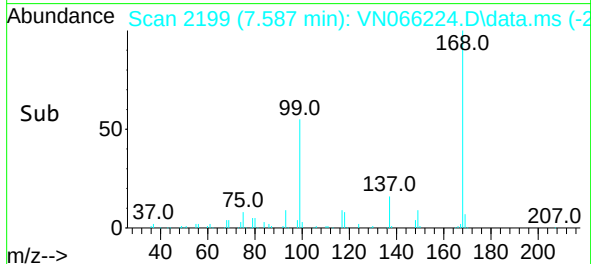
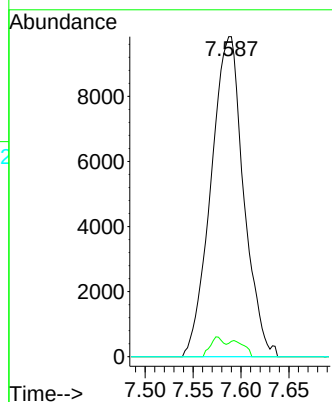


#38  
Carbon Tetrachloride  
Concen: 6.19 ug/l  
RT: 7.587 min Scan# 2199  
Delta R.T. -0.105 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

Instrument :  
MSVOA\_N  
ClientSampled :

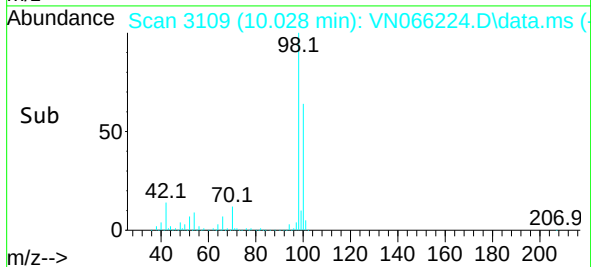
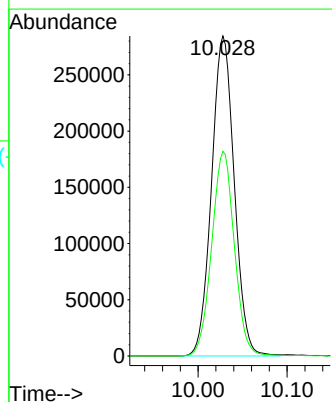
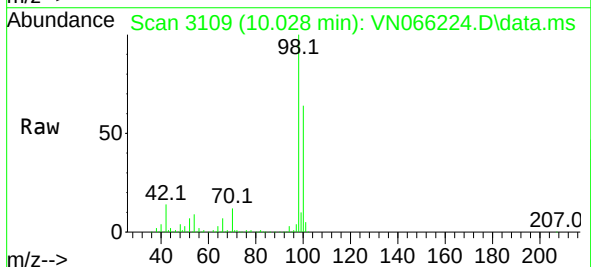


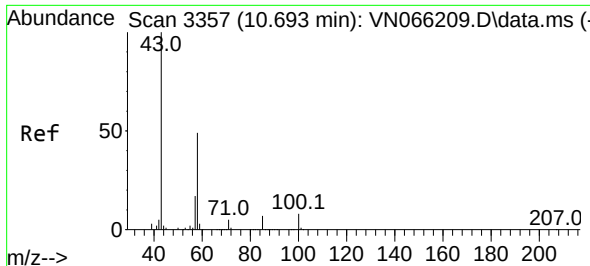
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Ion Ratio Lower Upper  
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121 0.0 23.9 35.9#



#50  
Toluene-d8  
Concen: 49.33 ug/l  
RT: 10.028 min Scan# 3109  
Delta R.T. -0.000 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

Tgt Ion: 98 Resp: 504683  
Ion Ratio Lower Upper  
98 100  
100 63.8 51.0 76.6

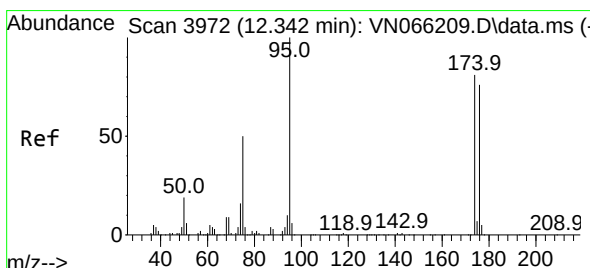
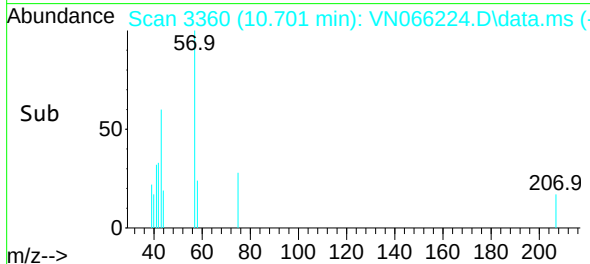
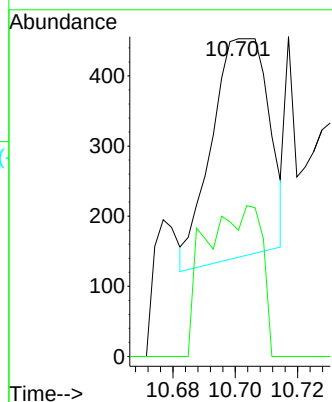
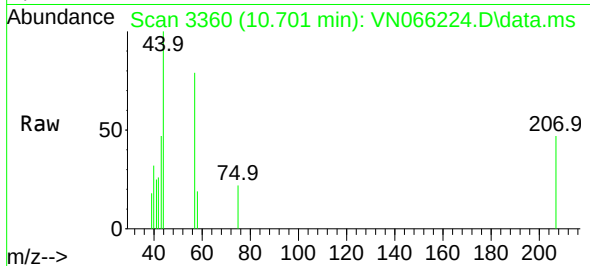




#59  
2-Hexanone  
Concen: 1.43 ug/l  
RT: 10.701 min Scan# 3360  
Delta R.T. 0.008 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

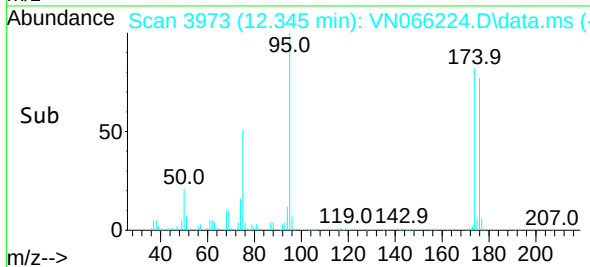
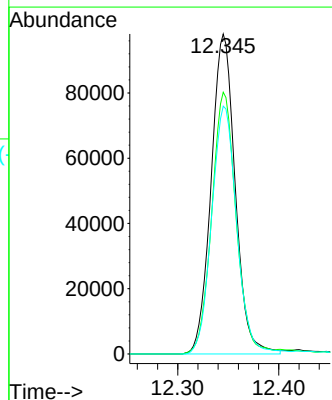
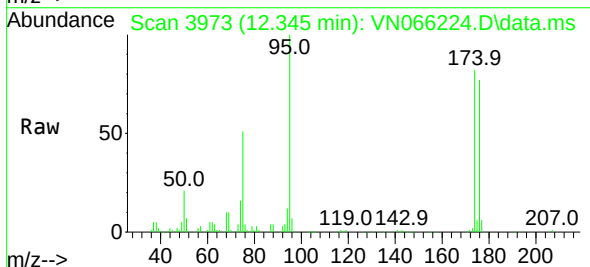
Instrument :  
MSVOA\_N  
ClientSampled :

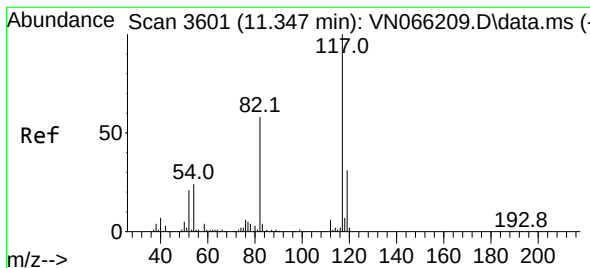
Tgt Ion: 43 Resp: 398  
Ion Ratio Lower Upper  
43 100  
58 67.6 23.8 71.5



#62  
4-Bromofluorobenzene  
Concen: 44.02 ug/l  
RT: 12.345 min Scan# 3973  
Delta R.T. 0.003 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

Tgt Ion: 95 Resp: 162335  
Ion Ratio Lower Upper  
95 100  
174 82.5 0.0 162.4  
176 80.5 0.0 156.2

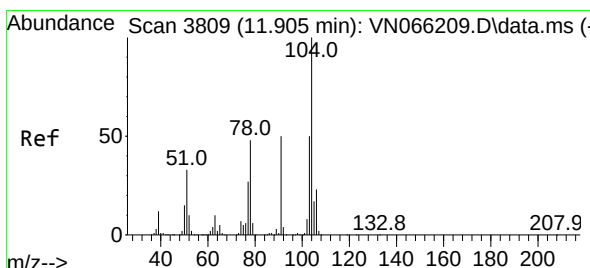
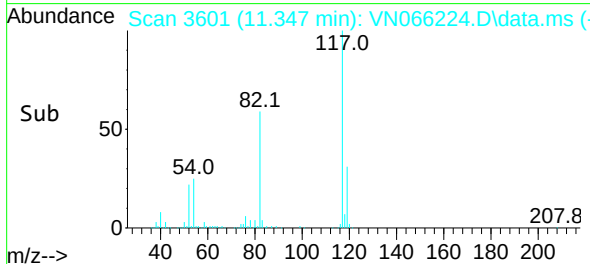
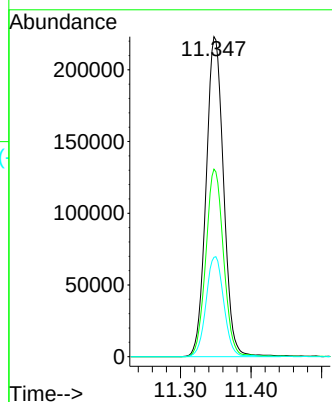
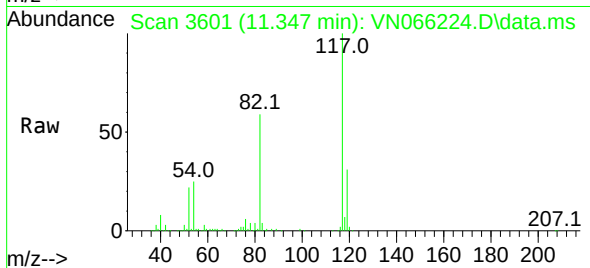




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.347 min Scan# 3601  
Delta R.T. 0.000 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

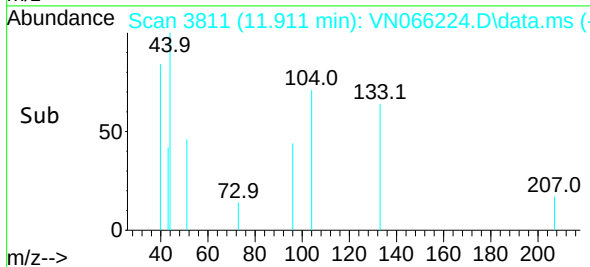
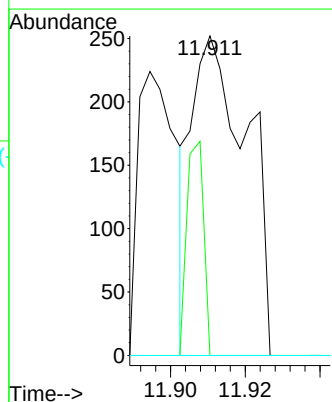
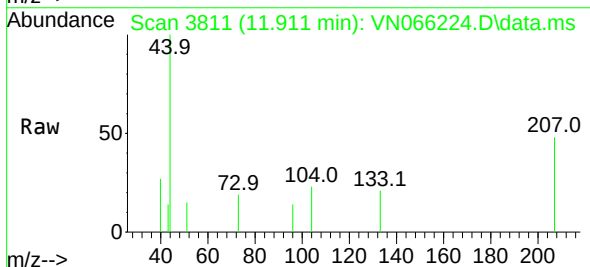
Instrument :  
MSVOA\_N  
ClientSampleId :

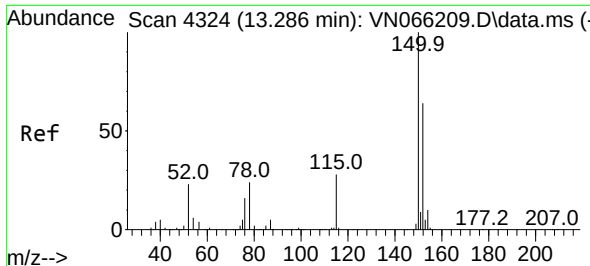
Tgt Ion:117 Resp: 384881  
Ion Ratio Lower Upper  
117 100  
82 58.6 49.0 73.6  
119 31.1 25.7 38.5



#70  
Styrene  
Concen: 2.18 ug/l  
RT: 11.911 min Scan# 3811  
Delta R.T. 0.006 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

Tgt Ion:104 Resp: 258  
Ion Ratio Lower Upper  
104 100  
78 20.5 43.8 65.6#  
103 0.0 43.7 65.5#

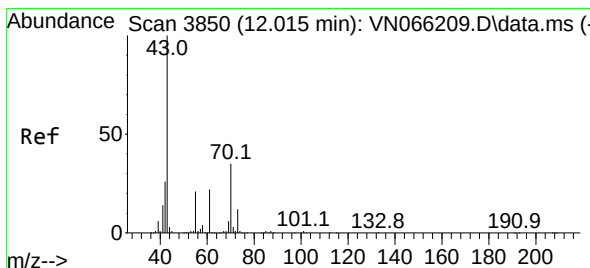
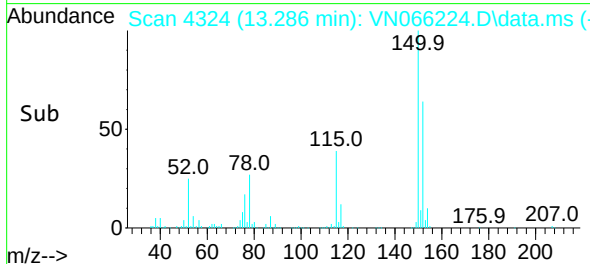
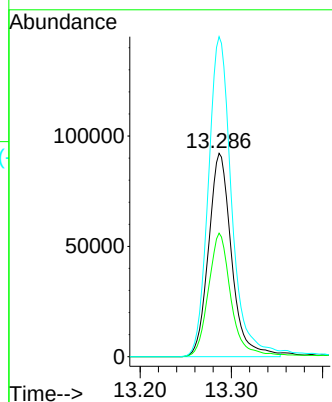
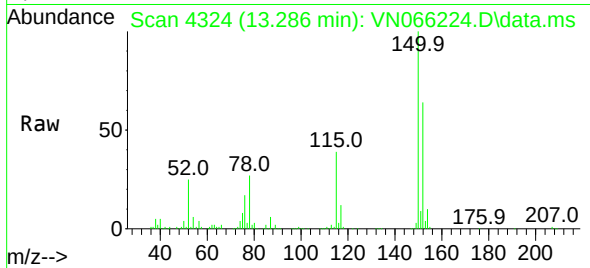




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.286 min Scan# 4324  
Delta R.T. 0.000 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

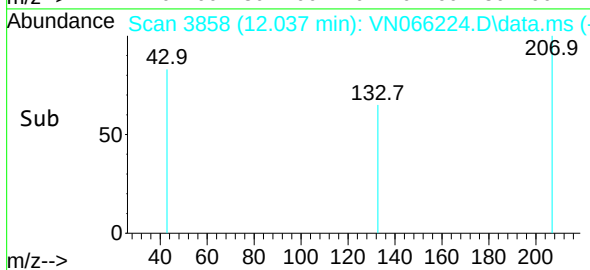
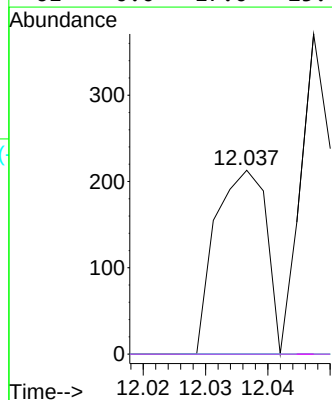
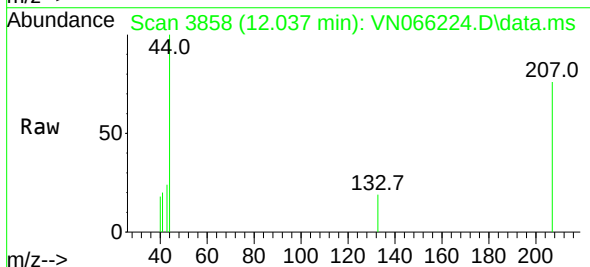
Instrument :  
MSVOA\_N  
ClientSampleId :

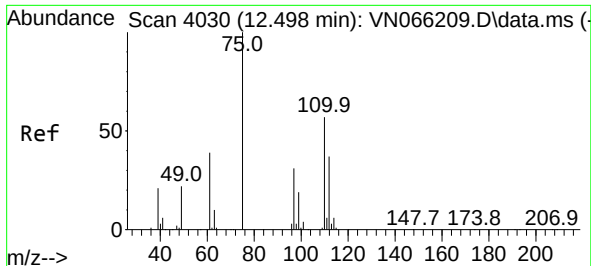
Tgt Ion:152 Resp: 161967  
Ion Ratio Lower Upper  
152 100  
115 60.5 29.4 88.3  
150 159.0 0.0 352.2



#74  
N-ethyl acetate  
Concen: 2.18 ug/l  
RT: 12.037 min Scan# 3858  
Delta R.T. 0.022 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

Tgt Ion: 43 Resp: 120  
Ion Ratio Lower Upper  
43 100  
70 0.0 26.2 39.4#  
55 0.0 17.2 25.8#  
61 0.0 17.0 25.4#

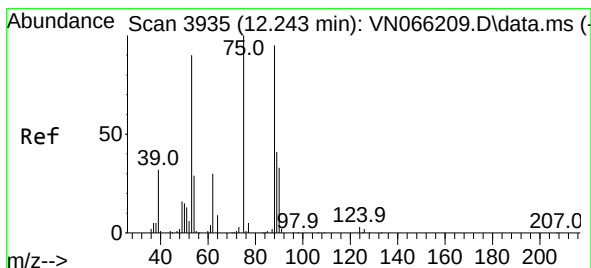
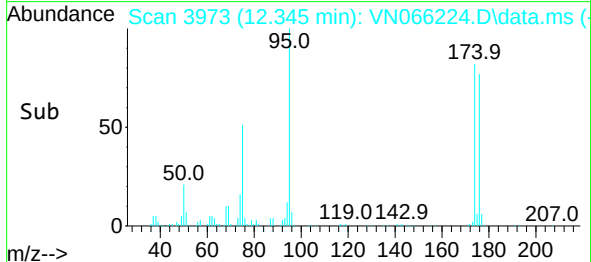
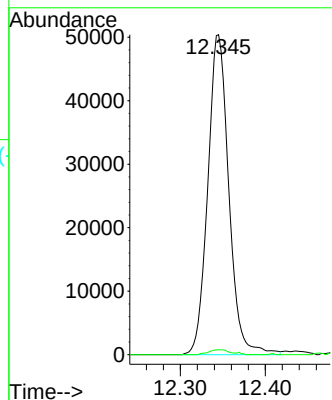
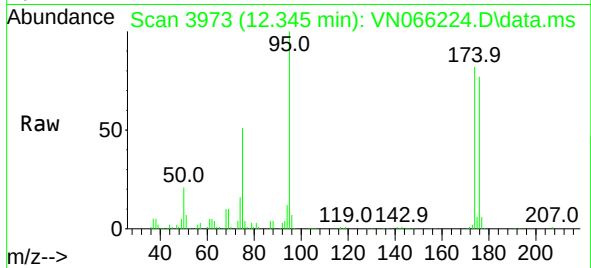




#76  
1,2,3-Trichloropropane  
Concen: 20.73 ug/l  
RT: 12.345 min Scan# 3973  
Delta R.T. -0.153 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

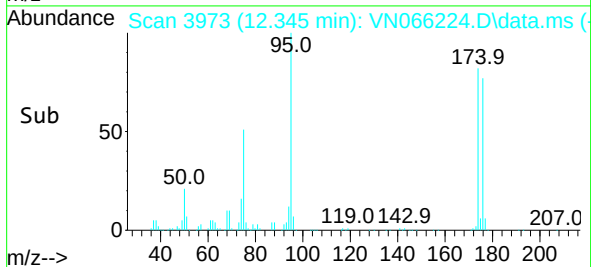
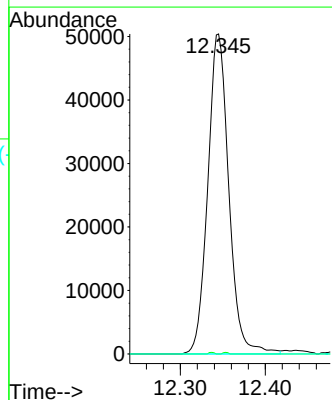
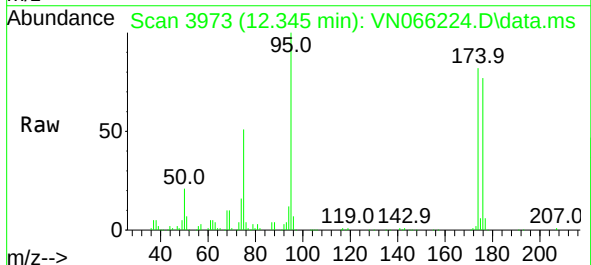
Instrument :  
MSVOA\_N  
ClientSampled :

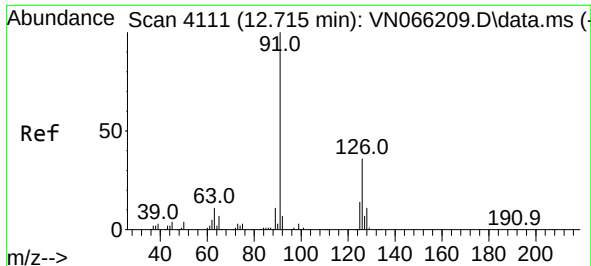
Tgt Ion: 75 Resp: 86707  
Ion Ratio Lower Upper  
75 100  
77 1.6 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 62.03 ug/l  
RT: 12.345 min Scan# 3973  
Delta R.T. 0.102 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

Tgt Ion: 75 Resp: 86707  
Ion Ratio Lower Upper  
75 100  
53 0.1 77.8 116.6#  
89 0.0 33.7 50.5#

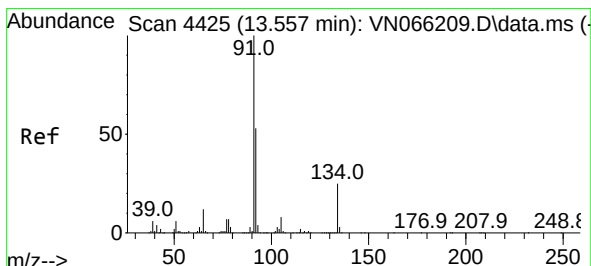
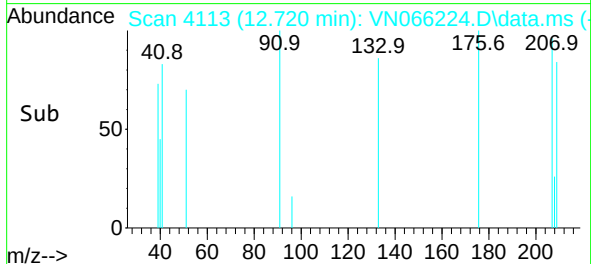
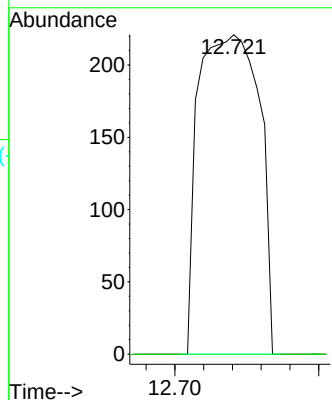
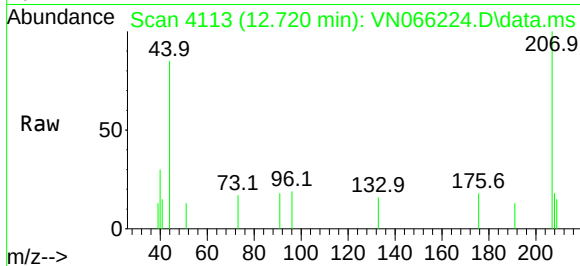




#82  
4-Chlorotoluene  
Concen: 0.51 ug/l  
RT: 12.720 min Scan# 4113  
Delta R.T. 0.005 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

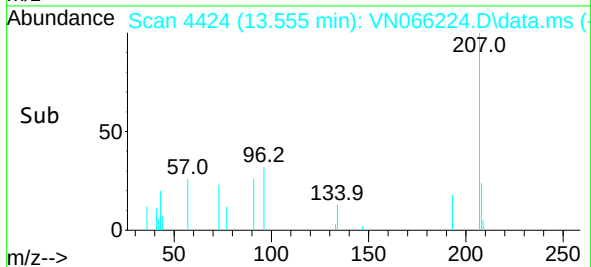
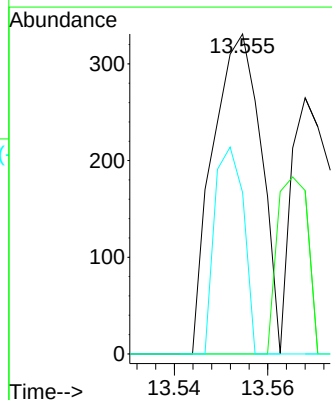
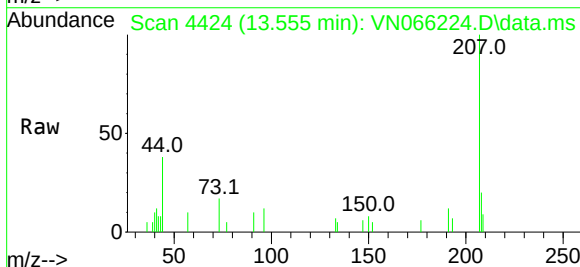
Instrument :  
MSVOA\_N  
ClientSampled :

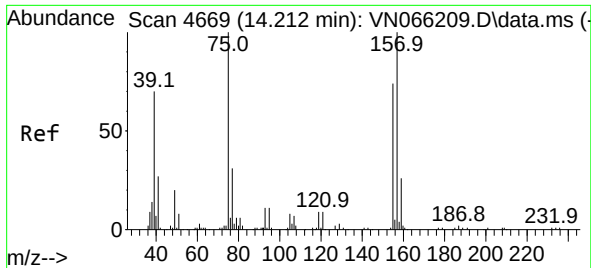
Tgt Ion: 91 Resp: 323  
Ion Ratio Lower Upper  
91 100  
126 0.0 15.7 47.1#



#89  
n-Butylbenzene  
Concen: 2.26 ug/l  
RT: 13.555 min Scan# 4424  
Delta R.T. -0.002 min  
Lab File: VN066224.D  
Acq: 16 Mar 2021 20:34

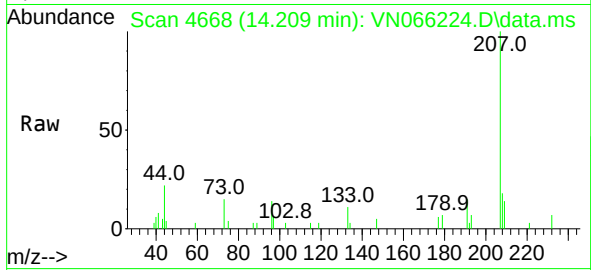
Tgt Ion: 91 Resp: 238  
Ion Ratio Lower Upper  
91 100  
92 0.0 25.7 77.0#  
134 38.7 11.8 35.4#





#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 1.09 ug/l  
 RT: 14.209 min Scan# 4668  
 Delta R.T. -0.003 min  
 Lab File: VN066224.D  
 Acq: 16 Mar 2021 20:34

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion: 75 Resp: 229  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 36.5 109.7#  
 157 0.0 46.3 138.8#

