

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN082321\  
 Data File : VN068273.D  
 Acq On : 23 Aug 2021 16:58  
 Operator : JC/MD  
 Sample : PB138622ZHE#05  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Aug 24 03:55:03 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081721W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 17 13:09:49 2021  
 Response via : Initial Calibration

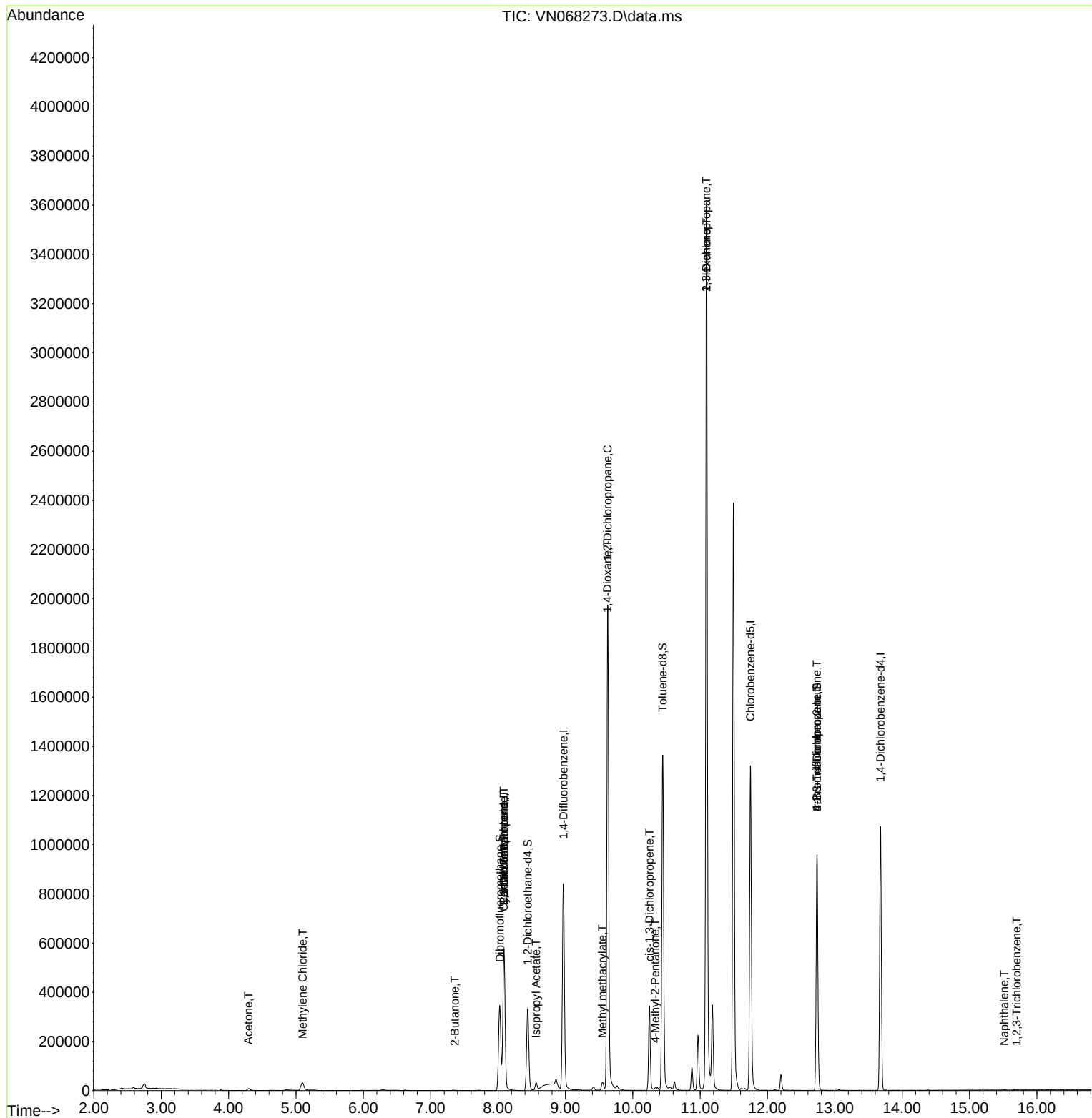
| Compound                      | R.T.   | QIon           | Response | Conc       | Units | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|-------|----------|
| -----                         |        |                |          |            |       |          |
| Internal Standards            |        |                |          |            |       |          |
| 1) Pentafluorobenzene         | 8.088  | 168            | 485052   | 50.000     | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.971  | 114            | 817078   | 50.000     | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 11.747 | 117            | 871925   | 50.000     | ug/l  | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4    | 13.678 | 152            | 318296   | 50.000     | ug/l  | 0.00     |
| System Monitoring Compounds   |        |                |          |            |       |          |
| 33) 1,2-Dichloroethane-d4     | 8.440  | 65             | 282270   | 54.503     | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range 61 - 141 | Recovery | = 109.000% |       |          |
| 35) Dibromofluoromethane      | 8.027  | 113            | 252031   | 49.130     | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range 69 - 133 | Recovery | = 98.260%  |       |          |
| 50) Toluene-d8                | 10.443 | 98             | 1028689  | 52.628     | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range 65 - 126 | Recovery | = 105.260% |       |          |
| 62) 4-Bromofluorobenzene      | 12.734 | 95             | 335266   | 51.524     | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range 58 - 135 | Recovery | = 103.040% |       |          |
| Target Compounds              |        |                |          |            |       |          |
|                               |        |                |          |            |       | Qvalue   |
| 5) Bromomethane               | 2.832  | 94             | 127      | Below Cal  | #     | 4        |
| 6) Chloroethane               | 3.028  | 64             | 25       | Below Cal  | #     | 44       |
| 13) Acrolein                  | 4.036  | 56             | 24       | Below Cal  | #     | 14       |
| 16) Acetone                   | 4.293  | 43             | 14998    | 9.919      | ug/l  | 98       |
| 18) Methyl Acetate            | 4.859  | 43             | 3764     | Below Cal  |       | 97       |
| 20) Methylene Chloride        | 5.101  | 84             | 27142    | 4.555      | ug/l  | # 78     |
| 25) 2-Butanone                | 7.356  | 43             | 1602     | 0.680      | ug/l  | 99       |
| 31) Cyclohexane               | 8.083  | 56             | 8070     | 1.183      | ug/l  | # 1      |
| 36) 1,1-Dichloropropene       | 8.088  | 75             | 31659    | 4.740      | ug/l  | # 52     |
| 38) Carbon Tetrachloride      | 8.088  | 117            | 44848    | 5.822      | ug/l  | # 17     |
| 43) Isopropyl Acetate         | 8.566  | 43             | 36642    | 4.020      | ug/l  | # 90     |
| 45) 1,2-Dichloropropane       | 9.628  | 63             | 2938     | 0.613      | ug/l  | # 44     |
| 48) Methyl methacrylate       | 9.547  | 41             | 8209     | 2.161      | ug/l  | # 12     |
| 49) 1,4-Dioxane               | 9.622  | 88             | 338      | 3.682      | ug/l  | # 1      |
| 51) 4-Methyl-2-Pentanone      | 10.336 | 43             | 4835     | 0.864      | ug/l  | # 74     |
| 54) cis-1,3-Dichloropropene   | 10.247 | 75             | 66534    | 8.601      | ug/l  | # 55     |
| 57) 1,3-Dichloropropane       | 11.092 | 76             | 41049    | 4.799      | ug/l  | # 43     |
| 59) 2-Hexanone                | 11.095 | 43             | 503283   | 129.453    | ug/l  | # 58     |
| 76) 1,2,3-Trichloropropane    | 12.734 | 75             | 164860   | 31.162     | ug/l  | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.734 | 75             | 164860   | 102.092    | ug/l  | # 6      |
| 95) Naphthalene               | 15.515 | 128            | 722      | 3.398      | ug/l  | # 77     |
| 96) 1,2,3-Trichlorobenzene    | 15.700 | 180            | 165      | 2.862      | ug/l  | # 82     |
| -----                         |        |                |          |            |       |          |

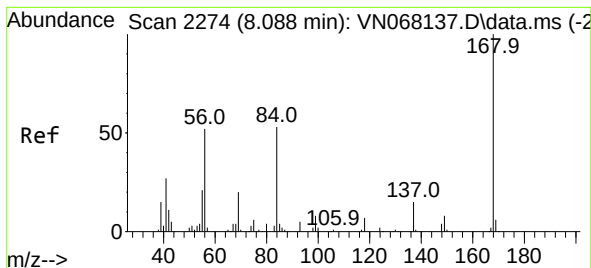
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Aug 17 13:09:49 2021  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.088 min Scan# 2274

Delta R.T. 0.000 min

Lab File: VN068273.D

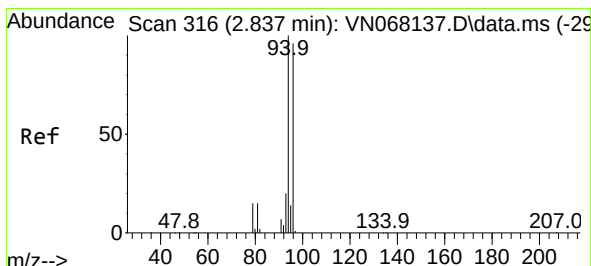
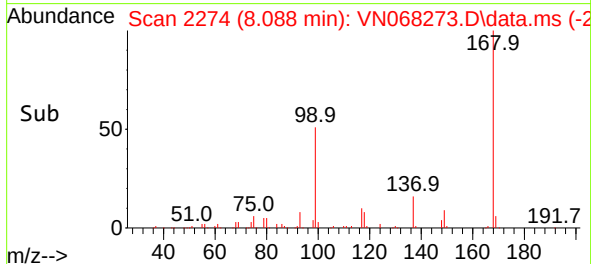
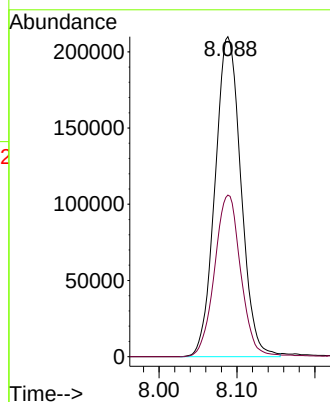
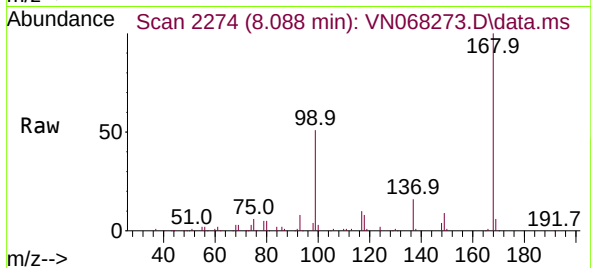
Acq: 23 Aug 2021 16:58

Tgt Ion:168 Resp: 485052

Ion Ratio Lower Upper

168 100

99 50.5 62.9 94.3#



#5

Bromomethane

Concen: Below Cal

RT: 2.832 min Scan# 314

Delta R.T. -0.005 min

Lab File: VN068273.D

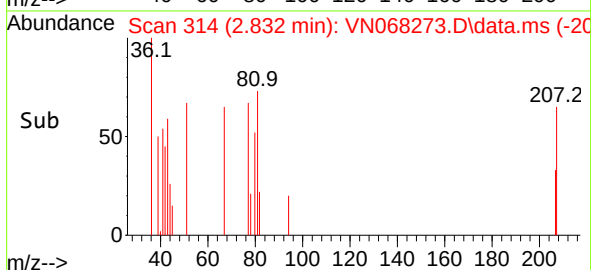
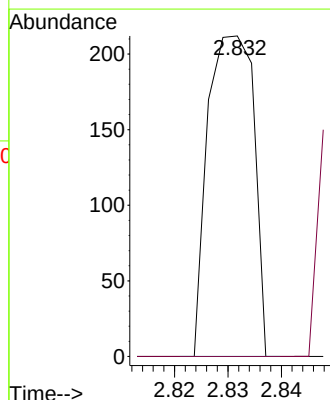
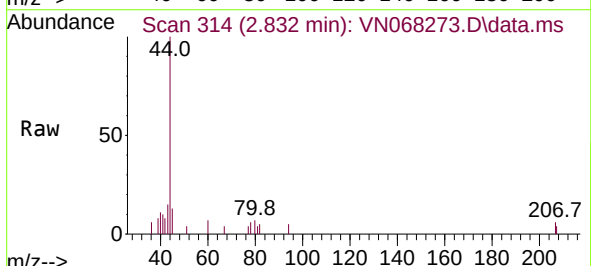
Acq: 23 Aug 2021 16:58

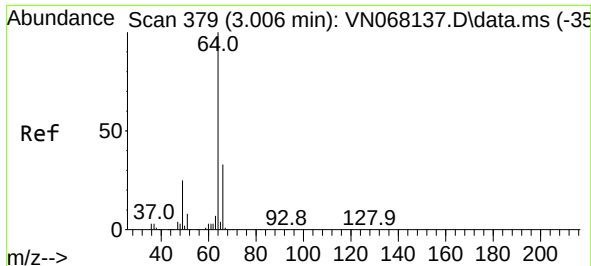
Tgt Ion: 94 Resp: 127

Ion Ratio Lower Upper

94 100

96 0.0 73.7 110.5#

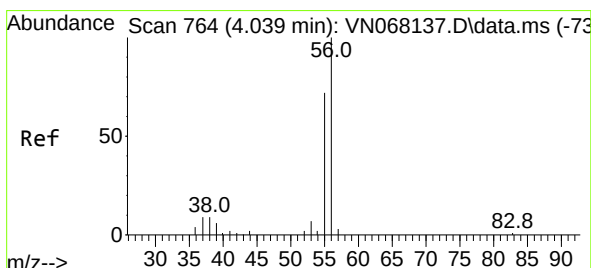
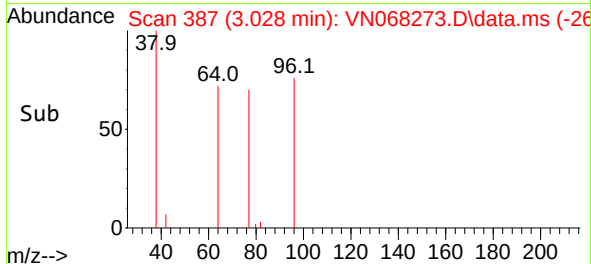
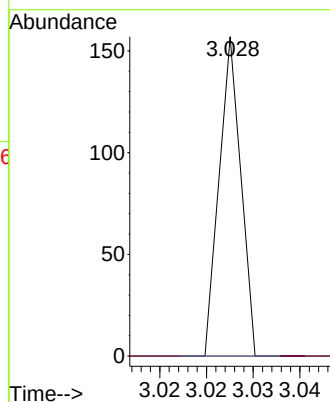
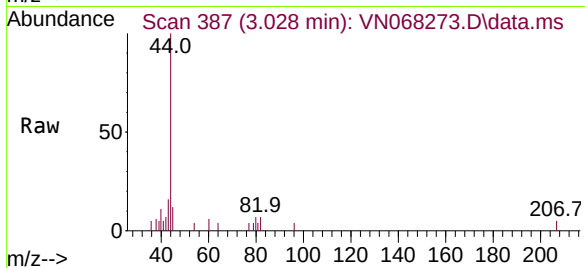




#6  
Chloroethane  
Concen: Below Cal  
RT: 3.028 min Scan# 387  
Delta R.T. 0.022 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

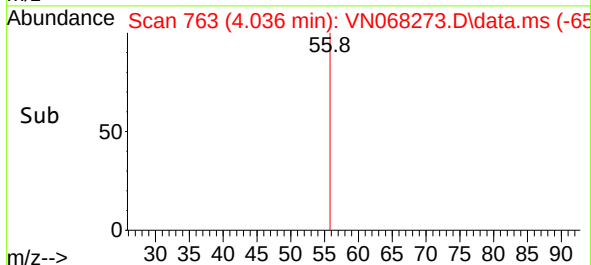
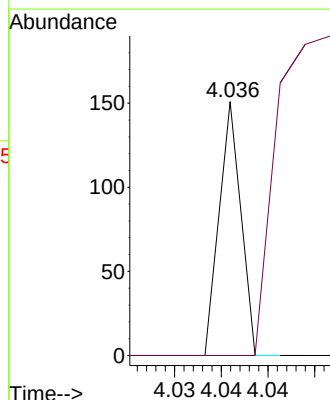
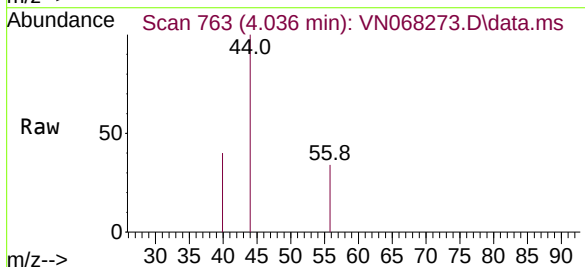
Instrument :  
MSVOA\_N  
ClientSampled :

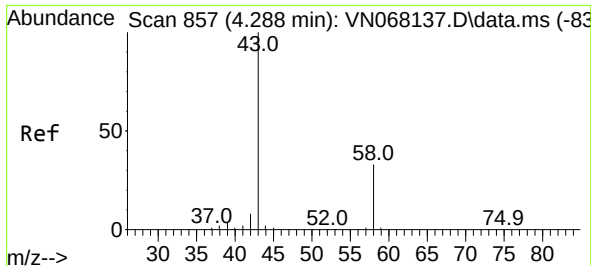
Tgt Ion: 64 Resp: 25  
Ion Ratio Lower Upper  
64 100  
66 0.0 24.7 37.1#



#13  
Acrolein  
Concen: Below Cal  
RT: 4.036 min Scan# 763  
Delta R.T. -0.003 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

Tgt Ion: 56 Resp: 24  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.4 86.0#

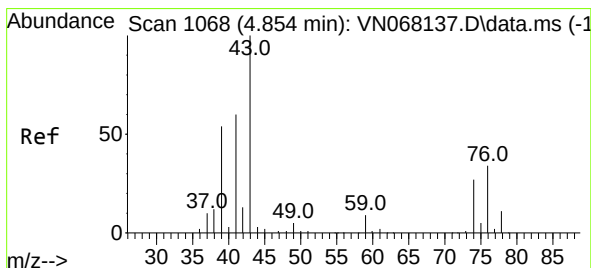
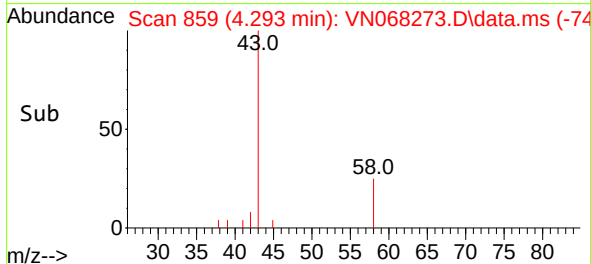
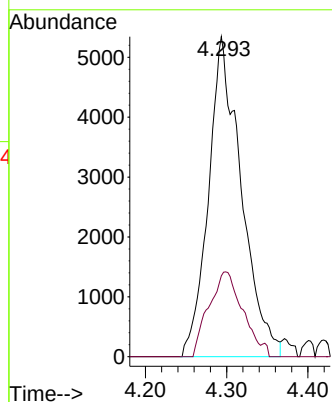
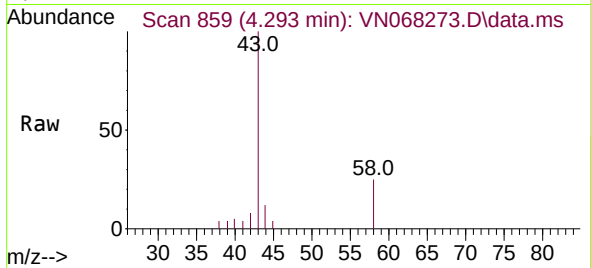




#16  
Acetone  
Concen: 9.919 ug/l  
RT: 4.293 min Scan# 859  
Delta R.T. 0.005 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

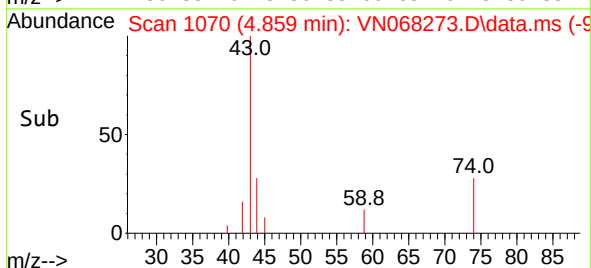
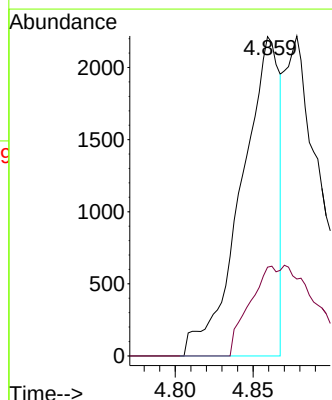
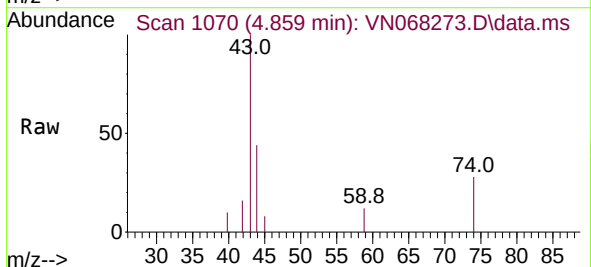
Instrument :  
MSVOA\_N  
ClientSampled :

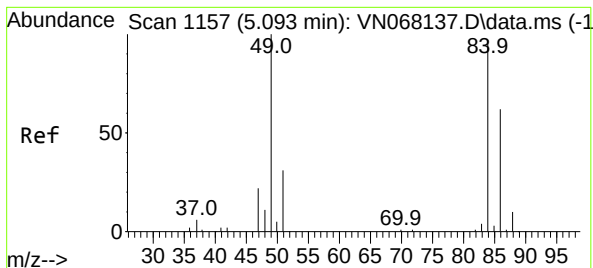
Tgt Ion: 43 Resp: 14998  
Ion Ratio Lower Upper  
43 100  
58 25.3 21.2 31.8



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.859 min Scan# 1070  
Delta R.T. 0.005 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

Tgt Ion: 43 Resp: 3764  
Ion Ratio Lower Upper  
43 100  
74 20.1 17.4 26.0

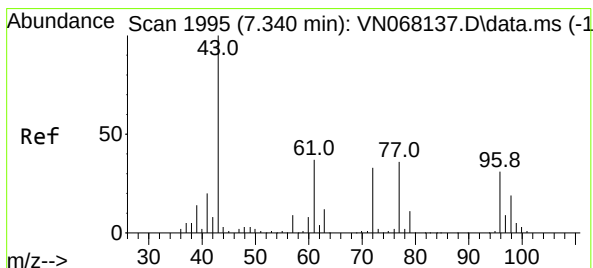
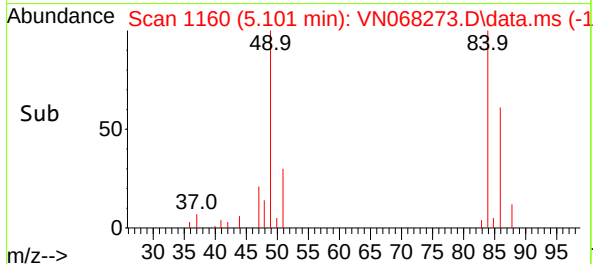
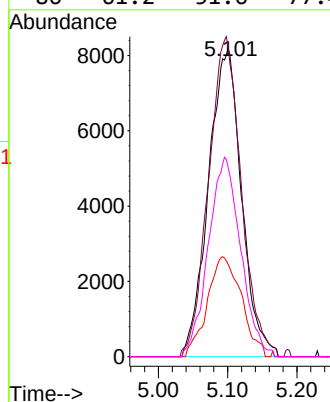
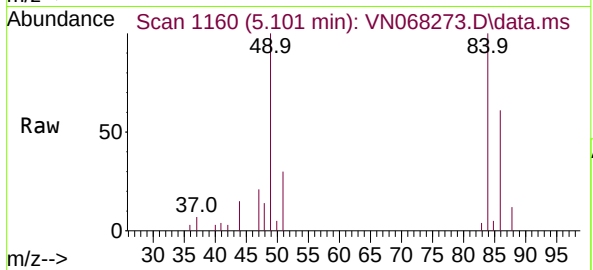




#20  
Methylene Chloride  
Concen: 4.555 ug/l  
RT: 5.101 min Scan# 1160  
Delta R.T. 0.008 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

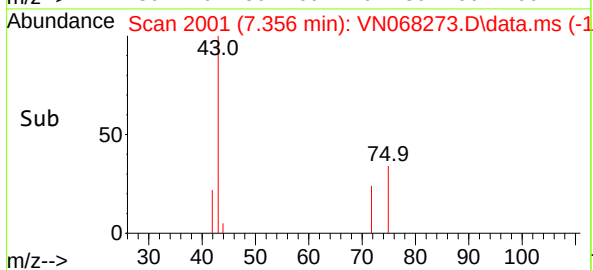
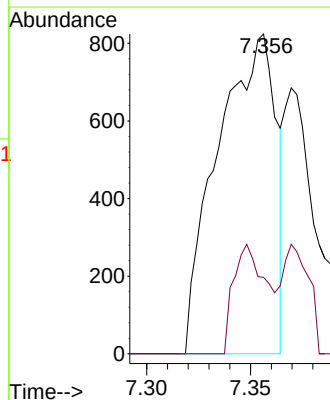
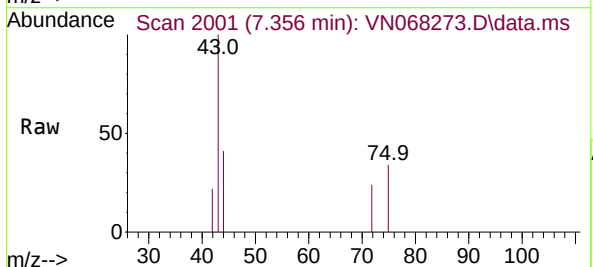
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MSVOA\_N  
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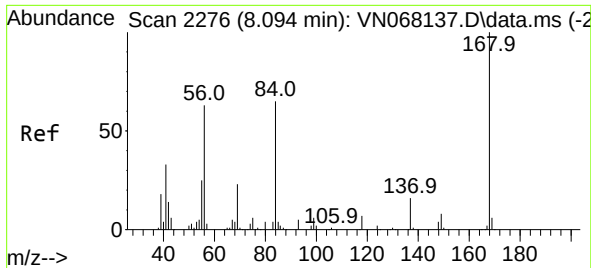
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 27142  |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 100.3 | 110.9 | 166.3# |
| 51       | 29.9  | 32.6  | 49.0#  |
| 86       | 61.2  | 51.6  | 77.4   |



#25  
2-Butanone  
Concen: 0.680 ug/l  
RT: 7.356 min Scan# 2001  
Delta R.T. 0.016 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1602  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 23.9  | 19.7  | 29.5  |

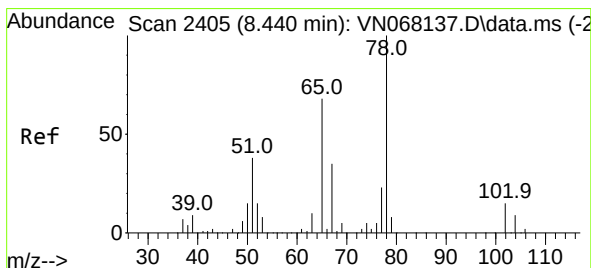
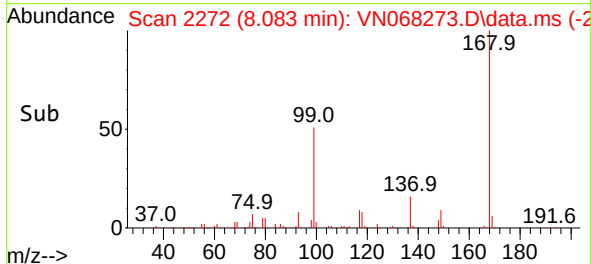
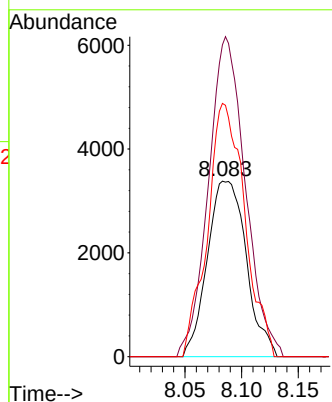
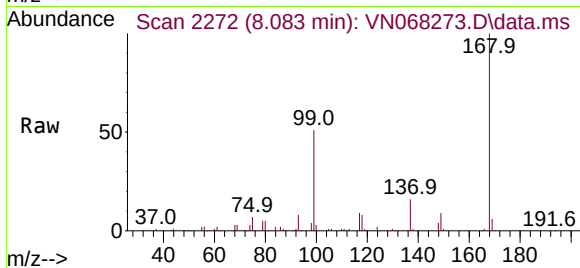




#31  
Cyclohexane  
Concen: 1.183 ug/l  
RT: 8.083 min Scan# 2272  
Delta R.T. -0.011 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

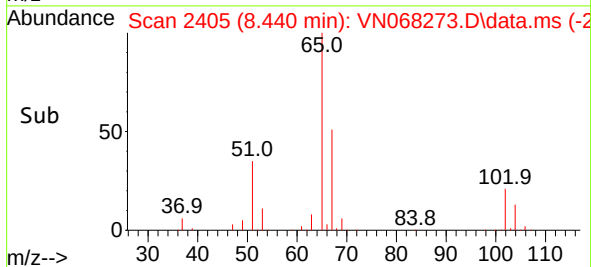
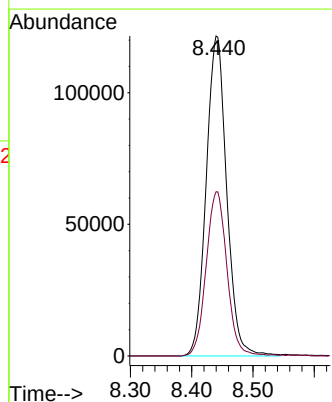
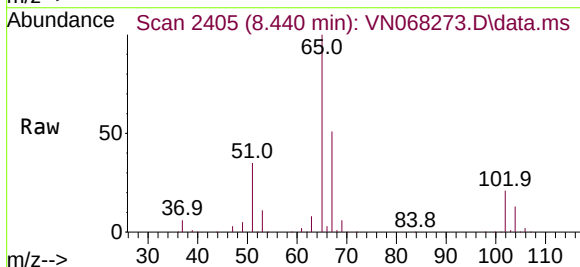
Instrument :  
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ClientSampled :

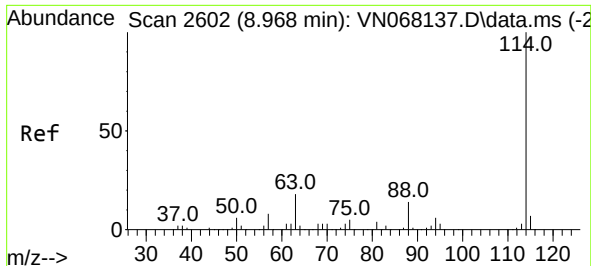
Tgt Ion: 56 Resp: 8070  
Ion Ratio Lower Upper  
56 100  
69 172.3 27.3 40.9#  
84 144.3 64.9 97.3#



#33  
1,2-Dichloroethane-d4  
Concen: 54.503 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. -0.000 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

Tgt Ion: 65 Resp: 282270  
Ion Ratio Lower Upper  
65 100  
67 52.0 0.0 98.6

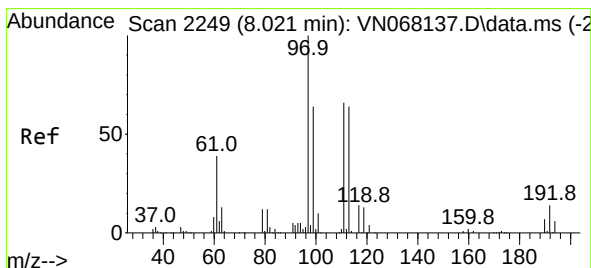
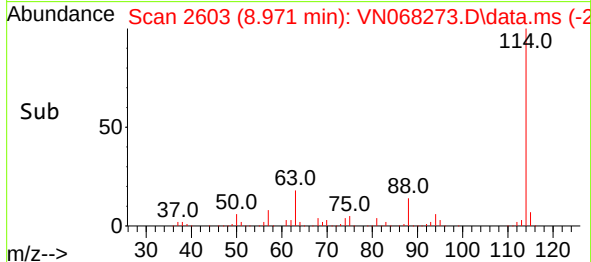
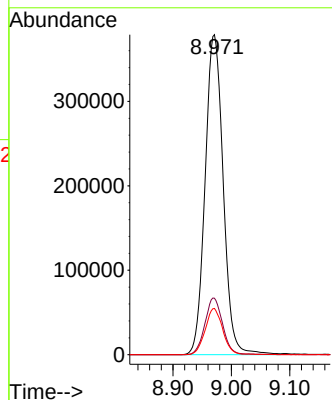
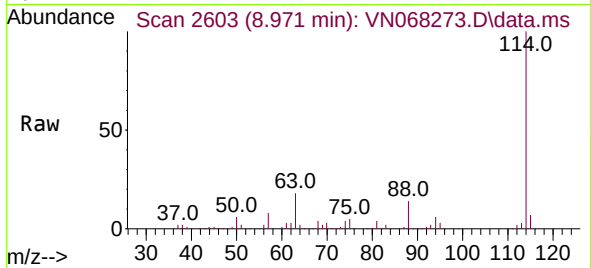




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.003 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

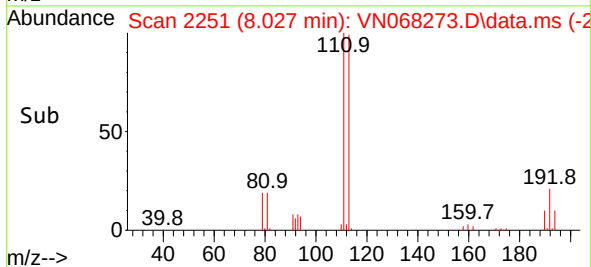
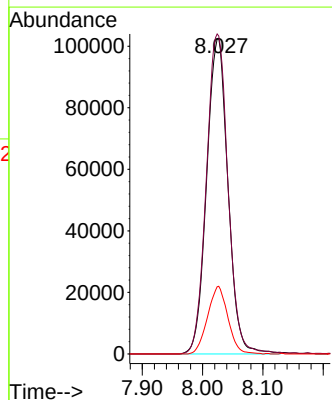
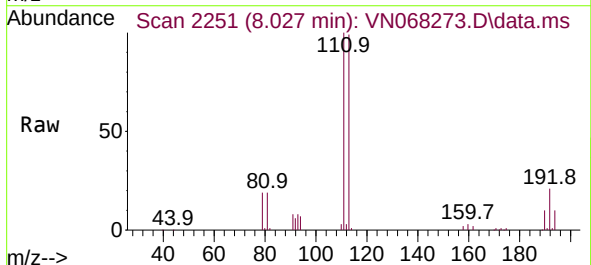
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:114 Resp: 817078  
Ion Ratio Lower Upper  
114 100  
63 17.6 0.0 49.0  
88 14.5 0.0 36.6

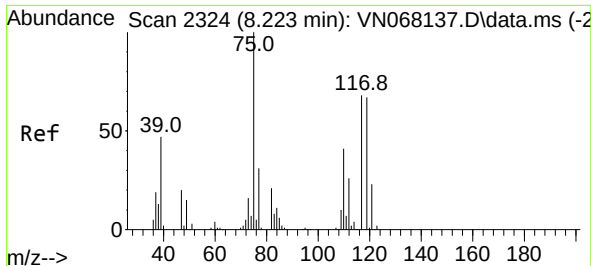


#35  
Dibromofluoromethane  
Concen: 49.130 ug/l  
RT: 8.027 min Scan# 2251  
Delta R.T. 0.006 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

Tgt Ion:113 Resp: 252031  
Ion Ratio Lower Upper  
113 100  
111 102.9 83.8 125.8  
192 20.4 13.4 20.0#



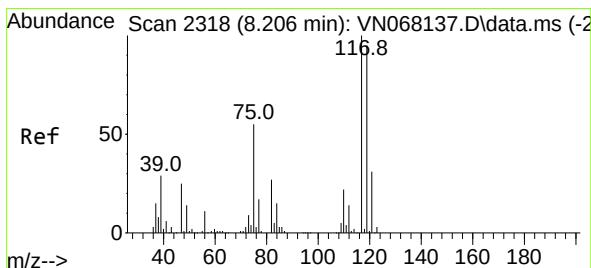
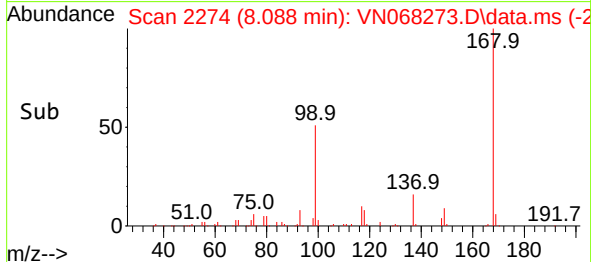
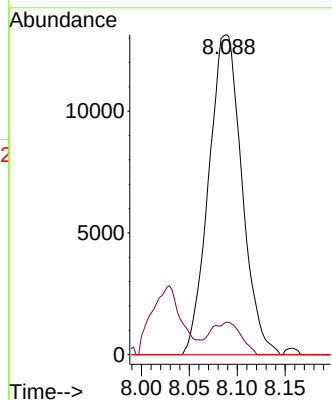
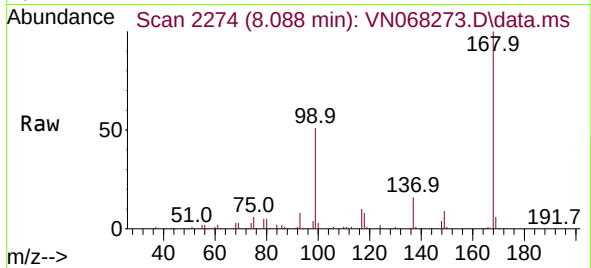




#36  
 1,1-Dichloropropene  
 Concen: 4.740 ug/l  
 RT: 8.088 min Scan# 2274  
 Delta R.T. -0.135 min  
 Lab File: VN068273.D  
 Acq: 23 Aug 2021 16:58

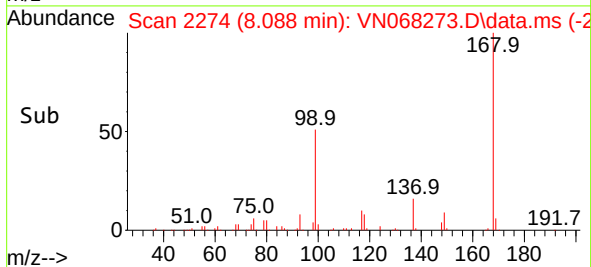
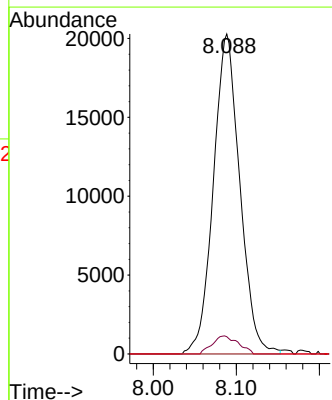
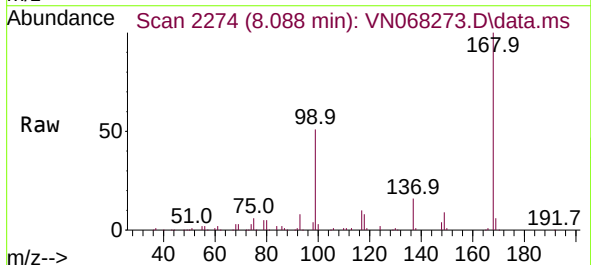
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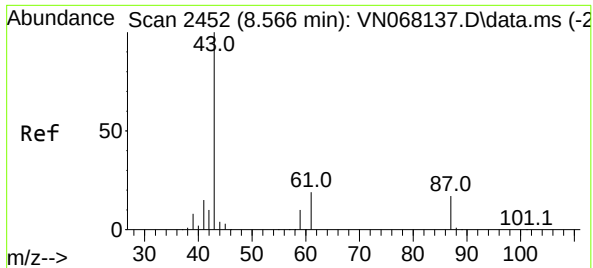
Tgt Ion: 75 Resp: 31659  
 Ion Ratio Lower Upper  
 75 100  
 110 9.2 15.7 47.0#  
 77 0.0 24.6 37.0#



#38  
 Carbon Tetrachloride  
 Concen: 5.822 ug/l  
 RT: 8.088 min Scan# 2274  
 Delta R.T. -0.118 min  
 Lab File: VN068273.D  
 Acq: 23 Aug 2021 16:58

Tgt Ion: 117 Resp: 44848  
 Ion Ratio Lower Upper  
 117 100  
 119 5.4 75.4 113.2#  
 121 0.0 23.5 35.3#

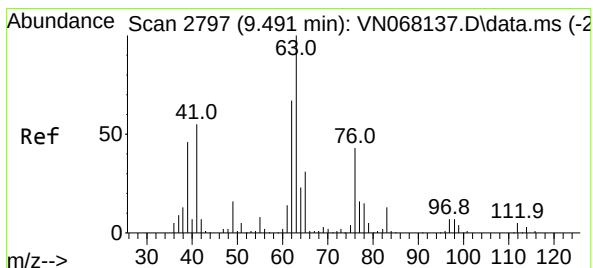
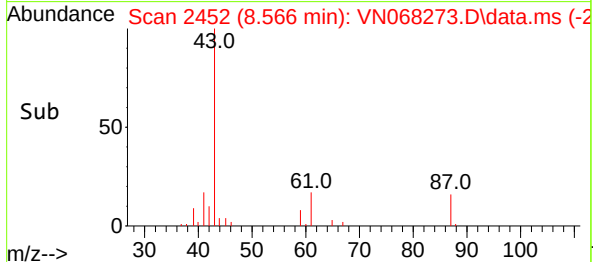
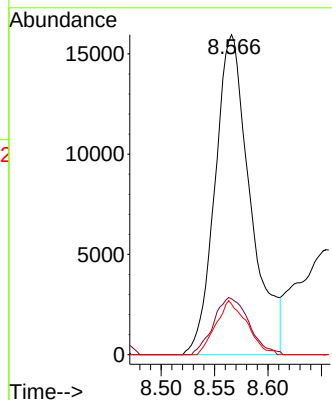
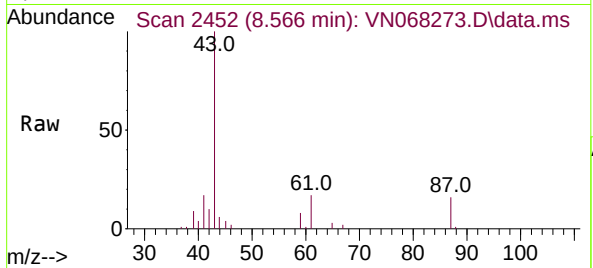




#43  
Isopropyl Acetate  
Concen: 4.020 ug/l  
RT: 8.566 min Scan# 2452  
Delta R.T. -0.000 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

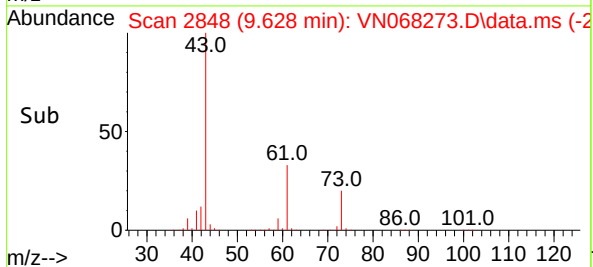
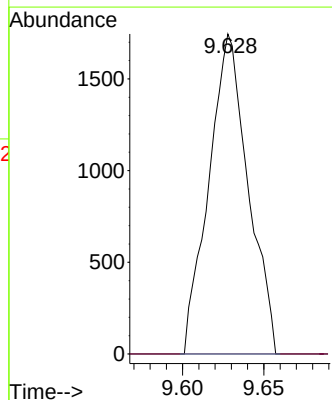
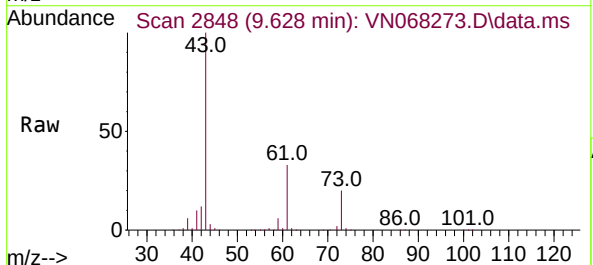
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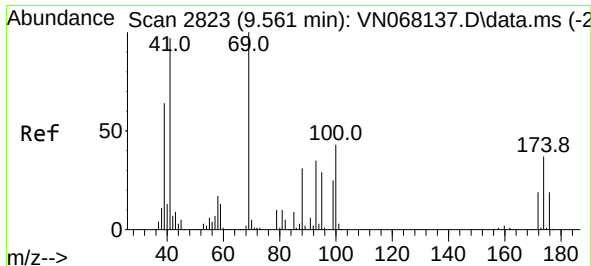
Tgt Ion: 43 Resp: 36642  
Ion Ratio Lower Upper  
43 100  
61 17.9 19.0 28.4#  
87 14.8 9.5 14.3#



#45  
1,2-Dichloropropane  
Concen: 0.613 ug/l  
RT: 9.628 min Scan# 2848  
Delta R.T. 0.137 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

Tgt Ion: 63 Resp: 2938  
Ion Ratio Lower Upper  
63 100  
65 0.0 24.3 36.5#

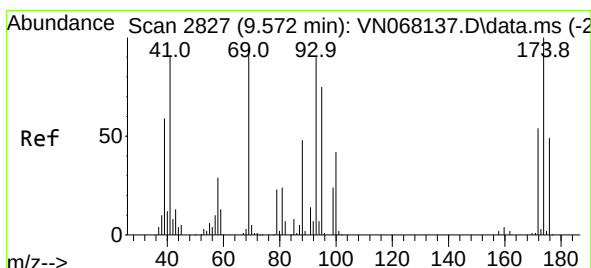
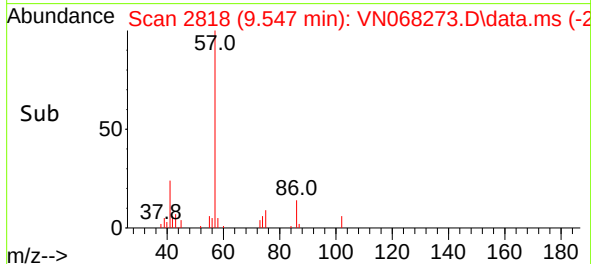
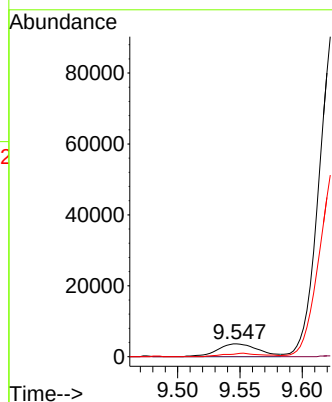
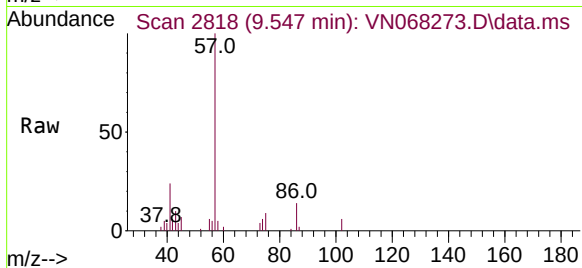




#48  
Methyl methacrylate  
Concen: 2.161 ug/l  
RT: 9.547 min Scan# 2818  
Delta R.T. -0.014 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

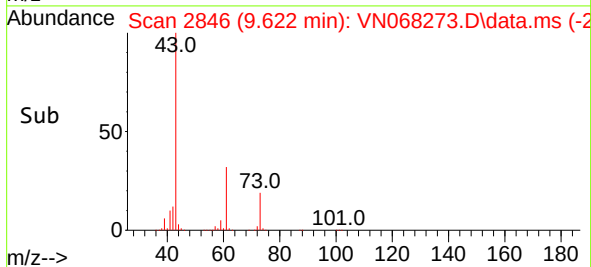
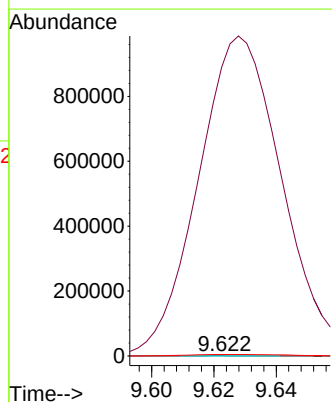
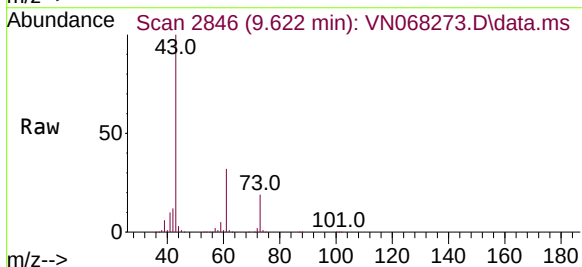
Instrument :  
MSVOA\_N  
ClientSampled :

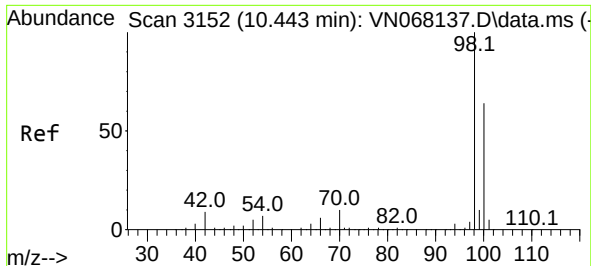
Tgt Ion: 41 Resp: 8209  
Ion Ratio Lower Upper  
41 100  
69 0.0 64.6 96.8#  
39 0.0 53.3 79.9#



#49  
1,4-Dioxane  
Concen: 3.682 ug/l  
RT: 9.622 min Scan# 2846  
Delta R.T. 0.050 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

Tgt Ion: 88 Resp: 338  
Ion Ratio Lower Upper  
88 100  
43 561506.8 28.8 43.2#  
58 3032.5 60.4 90.6#

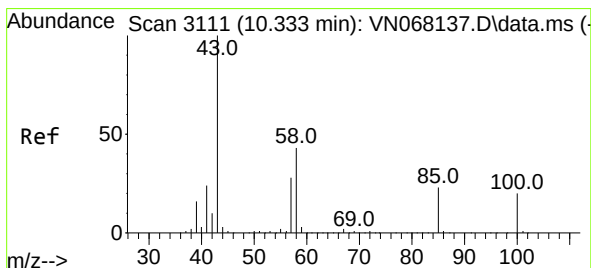
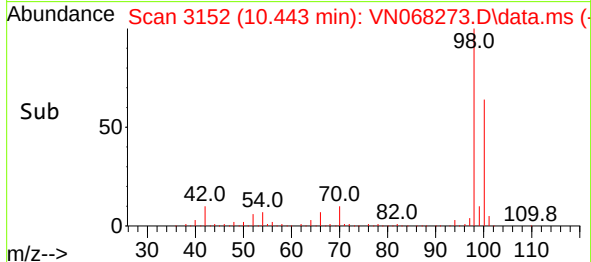
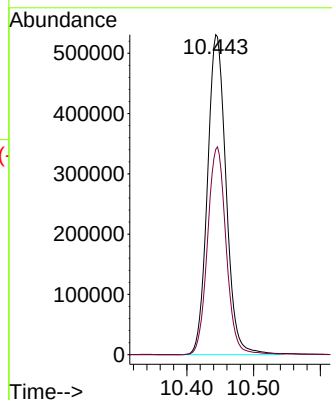
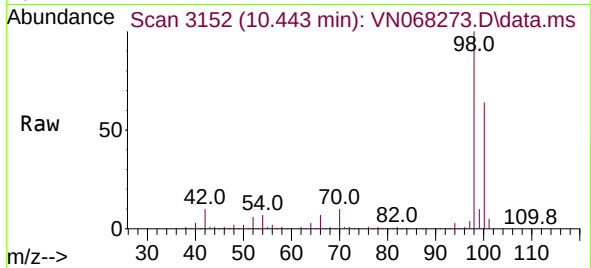




#50  
Toluene-d8  
Concen: 52.628 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.000 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

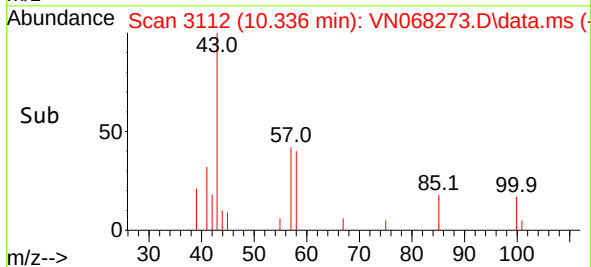
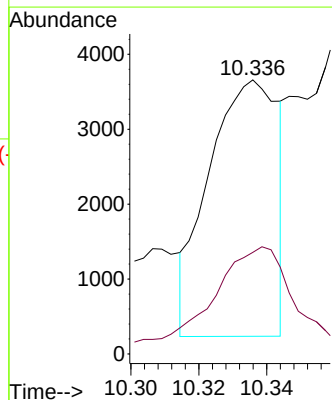
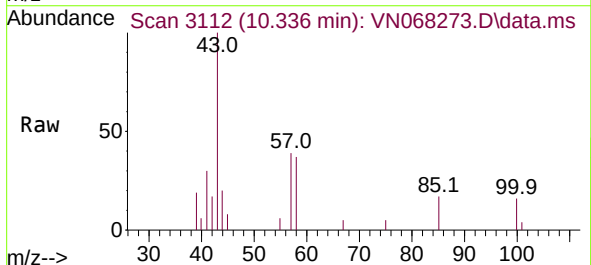
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MSVOA\_N  
ClientSampled :

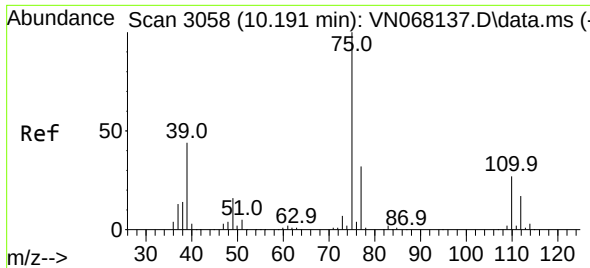
Tgt Ion: 98 Resp: 1028689  
Ion Ratio Lower Upper  
98 100  
100 64.9 51.7 77.5



#51  
4-Methyl-2-Pentanone  
Concen: 0.864 ug/l  
RT: 10.336 min Scan# 3112  
Delta R.T. 0.003 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

Tgt Ion: 43 Resp: 4835  
Ion Ratio Lower Upper  
43 100  
58 51.3 28.6 43.0#

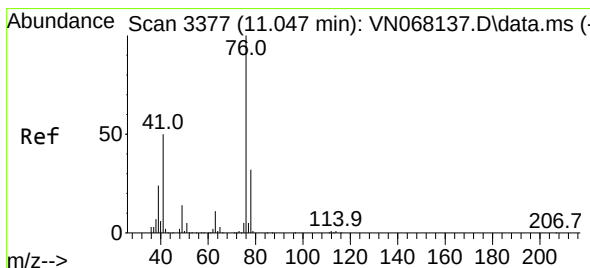
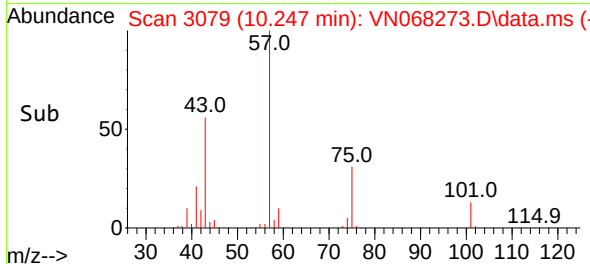
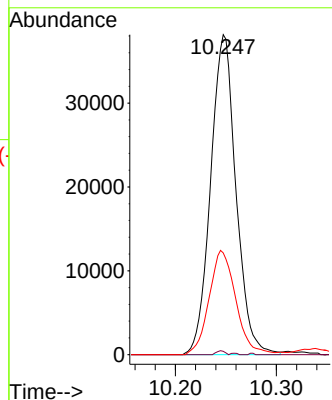
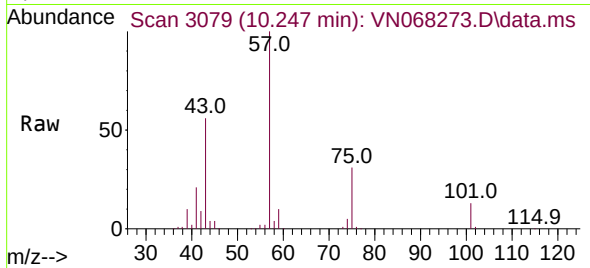




#54  
 cis-1,3-Dichloropropene  
 Concen: 8.601 ug/l  
 RT: 10.247 min Scan# 3079  
 Delta R.T. 0.056 min  
 Lab File: VN068273.D  
 Acq: 23 Aug 2021 16:58

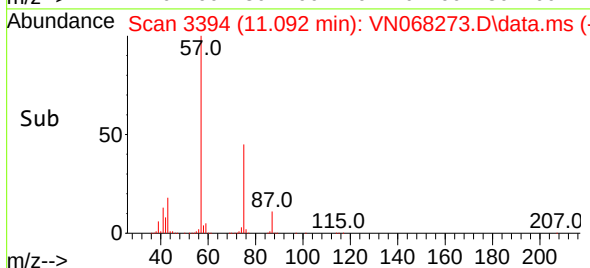
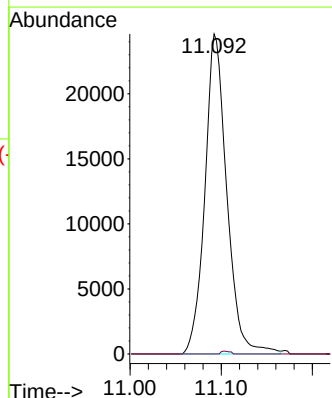
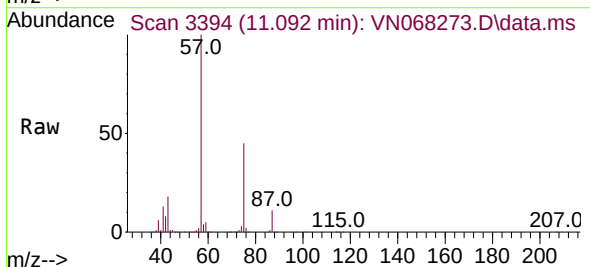
Instrument :  
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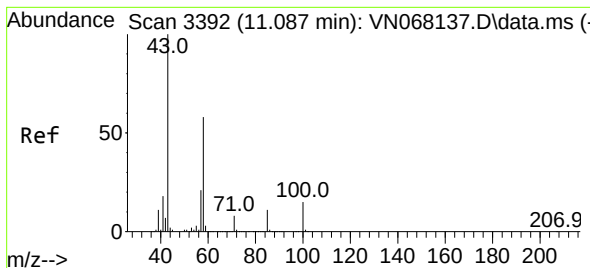
Tgt Ion: 75 Resp: 66534  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 24.6 37.0#  
 39 31.8 50.7 76.1#



#57  
 1,3-Dichloropropane  
 Concen: 4.799 ug/l  
 RT: 11.092 min Scan# 3394  
 Delta R.T. 0.045 min  
 Lab File: VN068273.D  
 Acq: 23 Aug 2021 16:58

Tgt Ion: 76 Resp: 41049  
 Ion Ratio Lower Upper  
 76 100  
 78 0.4 25.7 38.5#

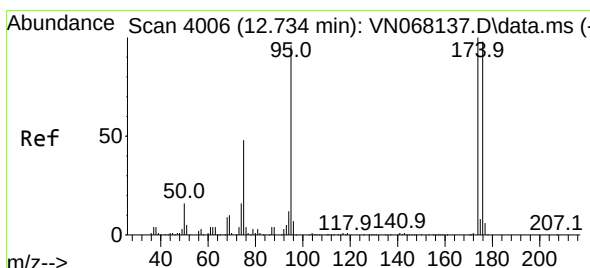
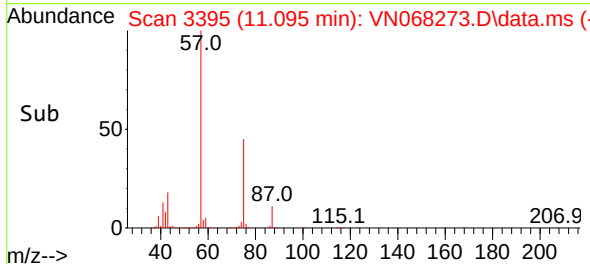
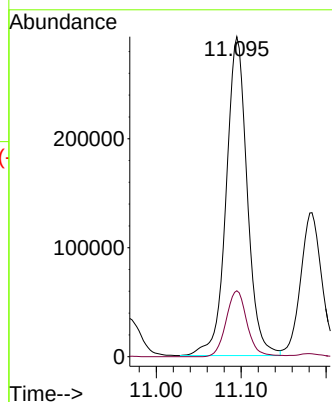
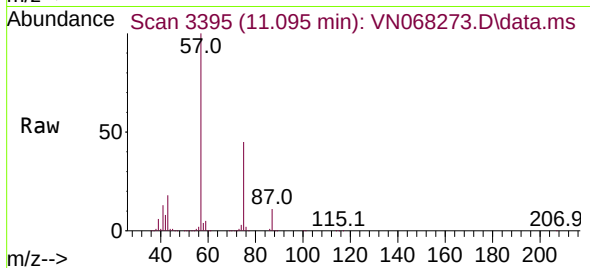




#59  
2-Hexanone  
Concen: 129.453 ug/l  
RT: 11.095 min Scan# 3395  
Delta R.T. 0.008 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

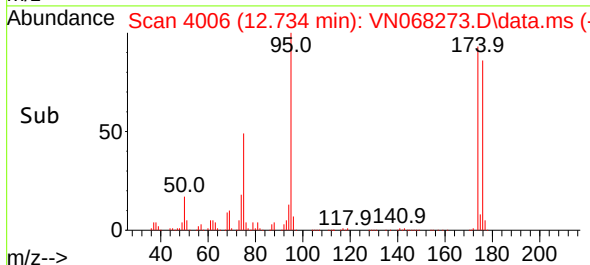
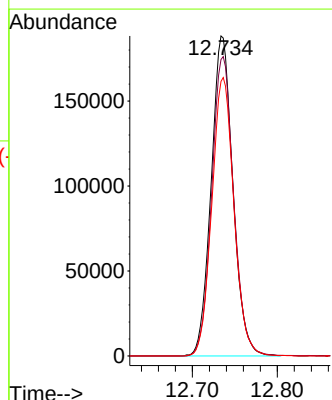
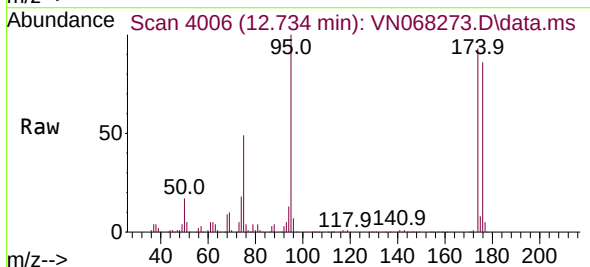
Instrument :  
MSVOA\_N  
ClientSampled :

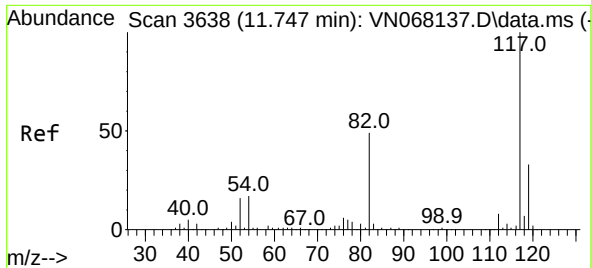
Tgt Ion: 43 Resp: 503283  
Ion Ratio Lower Upper  
43 100  
58 20.7 24.7 74.1#



#62  
4-Bromofluorobenzene  
Concen: 51.524 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. -0.000 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

Tgt Ion: 95 Resp: 335266  
Ion Ratio Lower Upper  
95 100  
174 94.5 0.0 122.0  
176 88.5 0.0 117.6

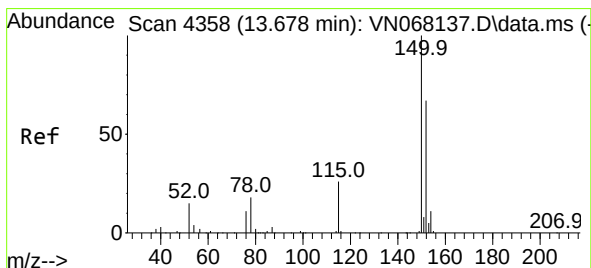
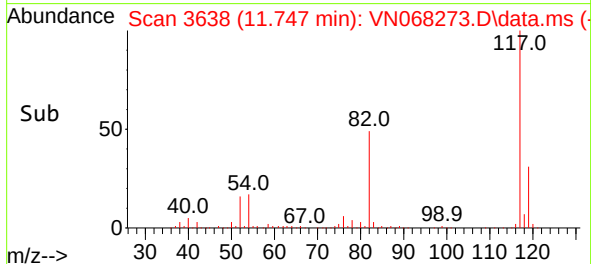
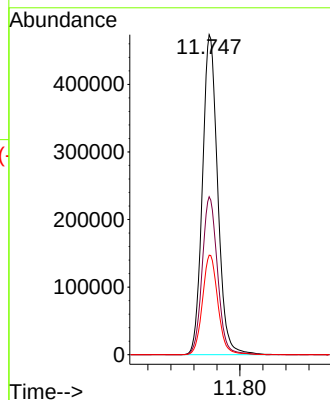
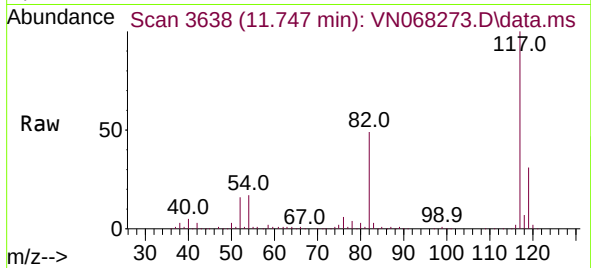




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.747 min Scan# 3638  
Delta R.T. -0.000 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

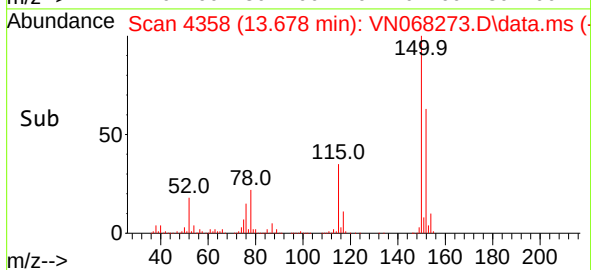
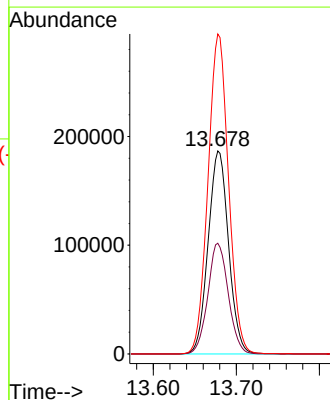
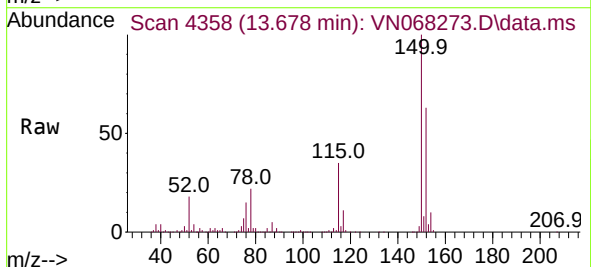
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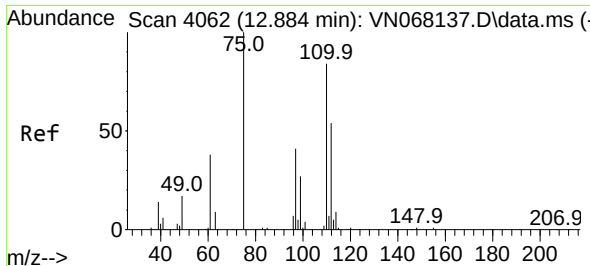
Tgt Ion:117 Resp: 871925  
Ion Ratio Lower Upper  
117 100  
82 49.3 53.1 79.7#  
119 31.1 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.678 min Scan# 4358  
Delta R.T. -0.000 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

Tgt Ion:152 Resp: 318296  
Ion Ratio Lower Upper  
152 100  
115 54.7 36.1 108.5  
150 158.5 0.0 351.8

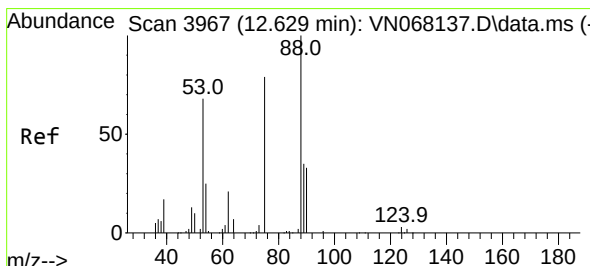
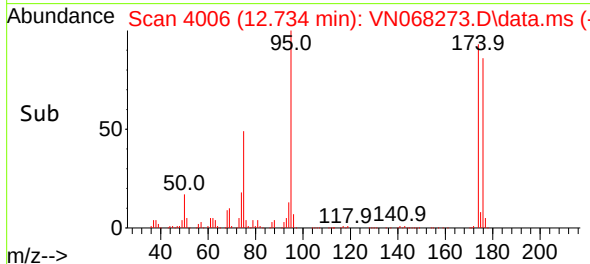
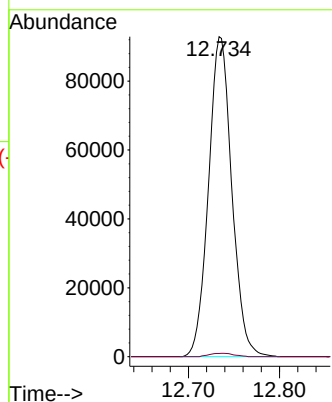
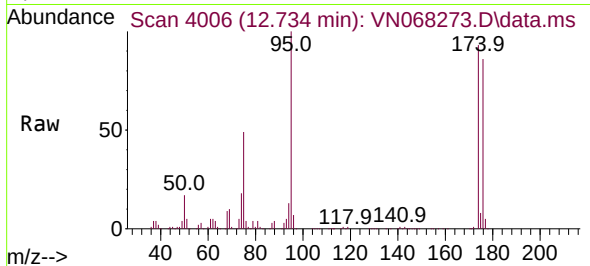




#76  
1,2,3-Trichloropropane  
Concen: 31.162 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. -0.150 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

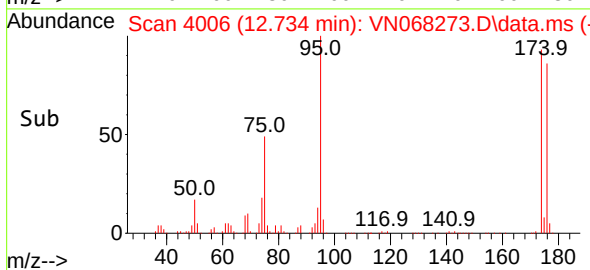
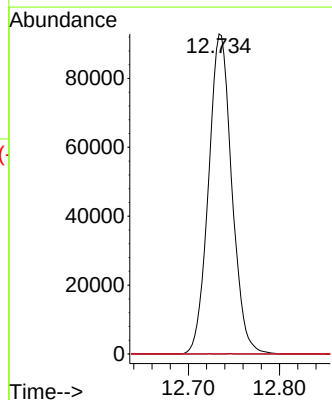
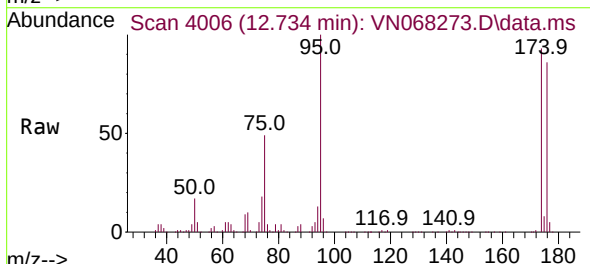
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 75 Resp: 164860  
Ion Ratio Lower Upper  
75 100  
77 1.1 0.0 0.0#

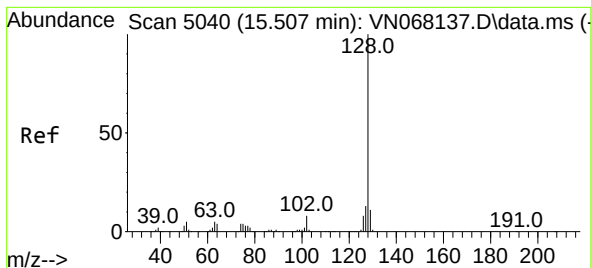


#81  
trans-1,4-Dichloro-2-butene  
Concen: 102.092 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.105 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

Tgt Ion: 75 Resp: 164860  
Ion Ratio Lower Upper  
75 100  
53 0.0 87.6 131.4#  
89 0.0 37.8 56.8#



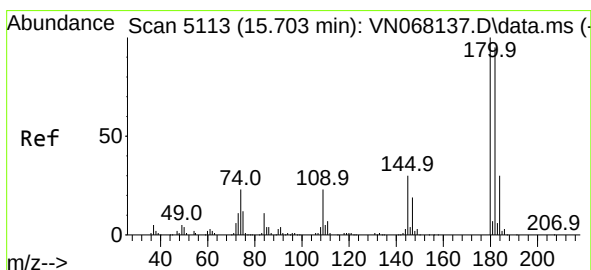
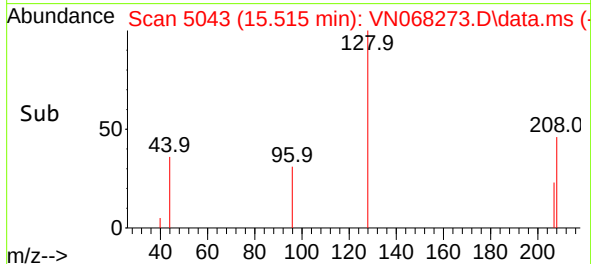
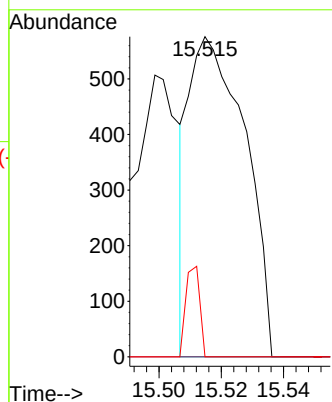
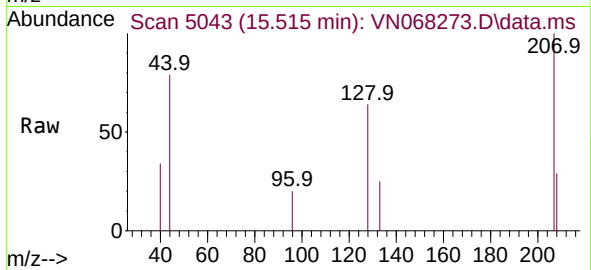




#95  
Naphthalene  
Concen: 3.398 ug/l  
RT: 15.515 min Scan# 5043  
Delta R.T. 0.008 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion:128 Resp: 722  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 15.8#  
129 7.1 8.6 12.8#



#96  
1,2,3-Trichlorobenzene  
Concen: 2.862 ug/l  
RT: 15.700 min Scan# 5112  
Delta R.T. -0.003 min  
Lab File: VN068273.D  
Acq: 23 Aug 2021 16:58

Tgt Ion:180 Resp: 165  
Ion Ratio Lower Upper  
180 100  
182 96.4 47.8 143.3  
145 0.0 18.2 54.6#

