

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112921\  
 Data File : VN069670.D  
 Acq On : 29 Nov 2021 17:52  
 Operator : JC/MD  
 Sample : M4852-05  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 30 04:18:50 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110921W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 09 18:18:22 2021  
 Response via : Initial Calibration

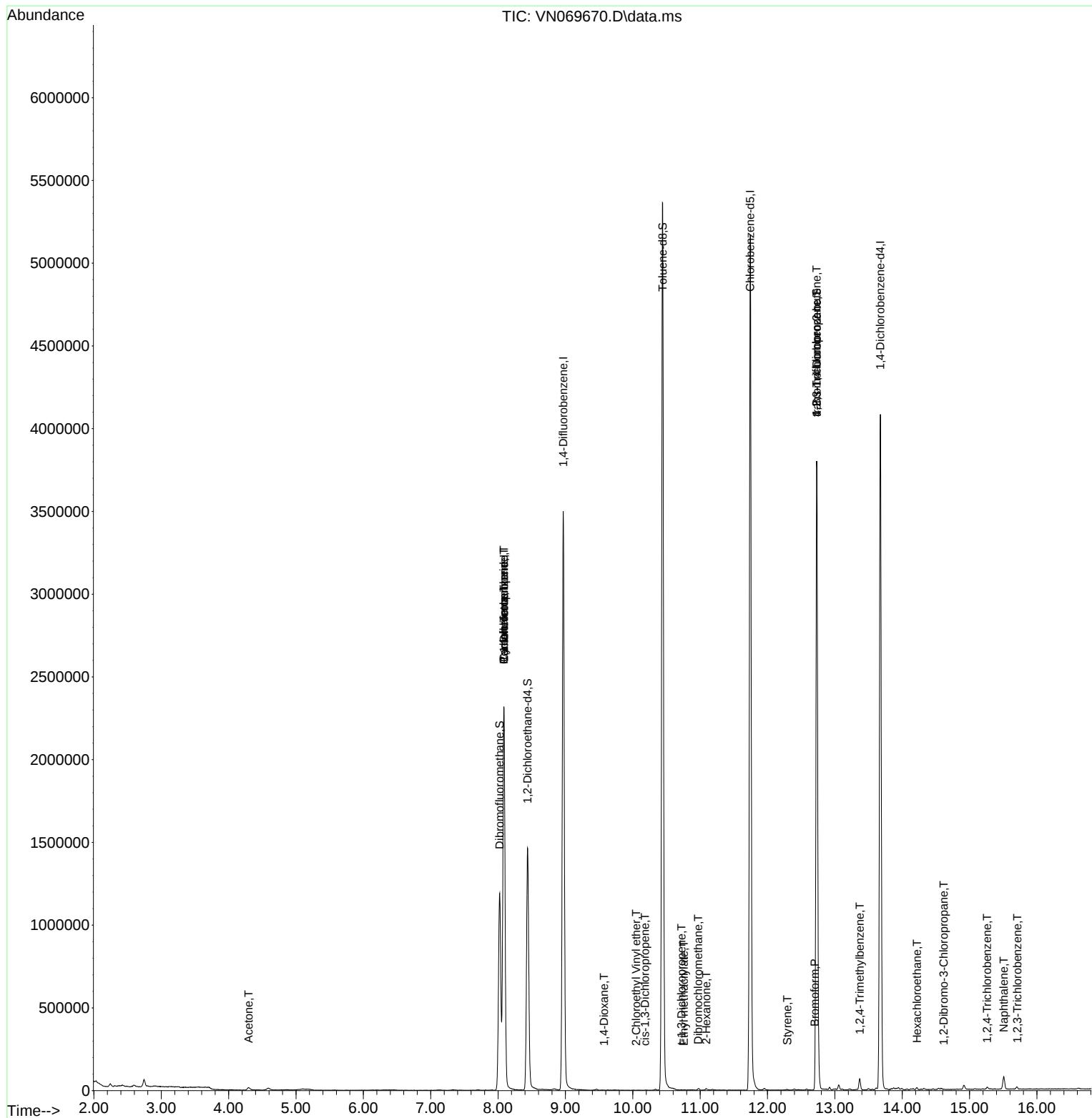
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.088  | 168   | 1725141  | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.968  | 114   | 2983219  | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.744 | 117   | 2913472  | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.675 | 152   | 1099795  | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.437  | 65    | 1260753  | 50.403    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery  | = 100.800% |          |
| 35) Dibromofluoromethane      | 8.024  | 113   | 877808   | 49.061    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery  | = 98.120%  |          |
| 50) Toluene-d8                | 10.443 | 98    | 3724850  | 52.933    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery  | = 105.860% |          |
| 62) 4-Bromofluorobenzene      | 12.731 | 95    | 1330442  | 51.466    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery  | = 102.940% |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 13) Acrolein                  | 4.038  | 56    | 165      | Below Cal | #          | 62       |
| 16) Acetone                   | 4.296  | 43    | 26137    | 1.937     | ug/l       | 90       |
| 31) Cyclohexane               | 8.086  | 56    | 45719    | 1.338     | ug/l #     | 28       |
| 36) 1,1-Dichloropropene       | 8.086  | 75    | 144452   | 5.755     | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 8.088  | 117   | 175103   | 7.225     | ug/l #     | 16       |
| 49) 1,4-Dioxane               | 9.574  | 88    | 130      | 39.305    | ug/l #     | 1        |
| 53) t-1,3-Dichloropropene     | 10.722 | 75    | 417      | 2.650     | ug/l #     | 74       |
| 54) cis-1,3-Dichloropropene   | 10.183 | 75    | 95       | 1.736     | ug/l #     | 37       |
| 56) Ethyl methacrylate        | 10.759 | 69    | 609      | 2.069     | ug/l #     | 64       |
| 58) 2-Chloroethyl Vinyl ether | 10.051 | 63    | 120      | 22.782    | ug/l #     | 45       |
| 59) 2-Hexanone                | 11.089 | 43    | 8963     | 8.234     | ug/l       | 80       |
| 60) Dibromochloromethane      | 10.971 | 129   | 2254     | 2.518     | ug/l #     | 11       |
| 70) Styrene                   | 12.294 | 104   | 1258     | 1.539     | ug/l       | 91       |
| 71) Bromoform                 | 12.701 | 173   | 26       | 3.429     | ug/l #     | 29       |
| 76) 1,2,3-Trichloropropane    | 12.731 | 75    | 746441   | 29.410    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.731 | 75    | 746441   | 83.198    | ug/l #     | 5        |
| 84) 1,2,4-Trimethylbenzene    | 13.369 | 105   | 39232    | 0.574     | ug/l       | 92       |
| 90) Hexachloroethane          | 14.219 | 117   | 910      | 2.231     | ug/l #     | 6        |
| 92) 1,2-Dibromo-3-Chloropr... | 14.613 | 75    | 134      | 1.820     | ug/l #     | 1        |
| 93) 1,2,4-Trichlorobenzene    | 15.262 | 180   | 3978     | 3.329     | ug/l       | 95       |
| 95) Naphthalene               | 15.507 | 128   | 71750    | 5.790     | ug/l       | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.708 | 180   | 4887     | 3.446     | ug/l       | 87       |

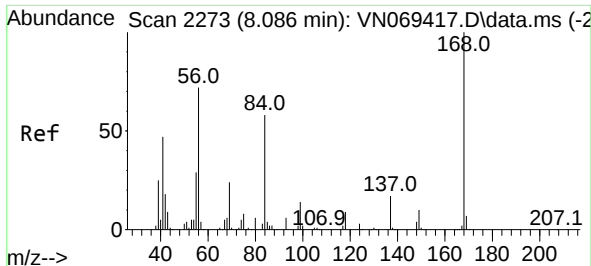
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112921\  
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Sample : M4852-05  
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ALS Vial : 14 Sample Multiplier: 1

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MSVOA\_N  
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Quant Time: Nov 30 04:18:50 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110921W.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 09 18:18:22 2021  
Response via : Initial Calibration

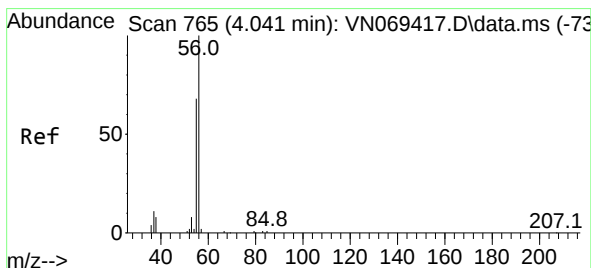
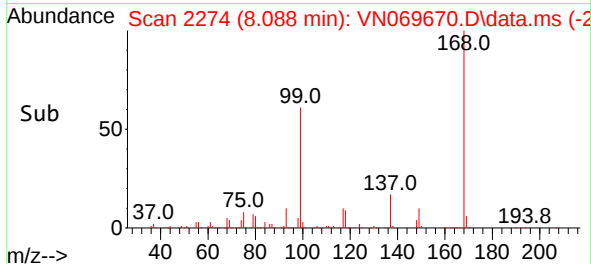
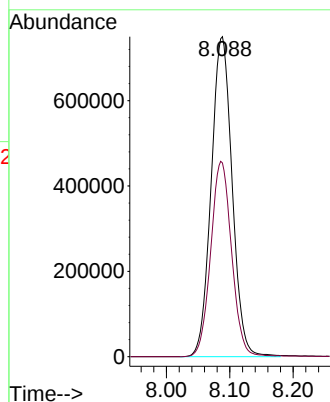
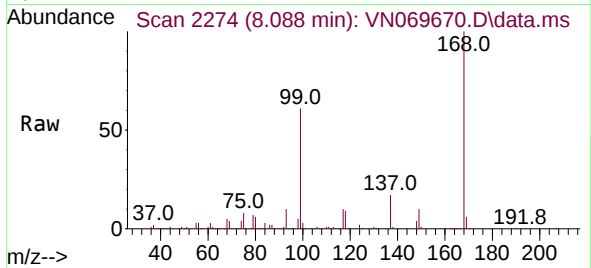




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 21  
Delta R.T. 0.002 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

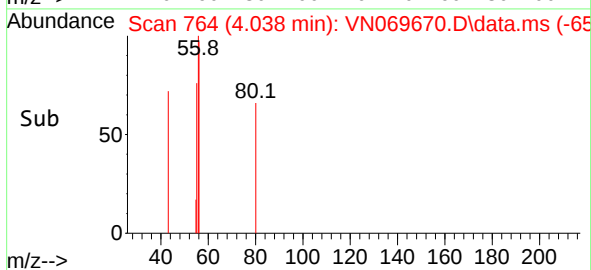
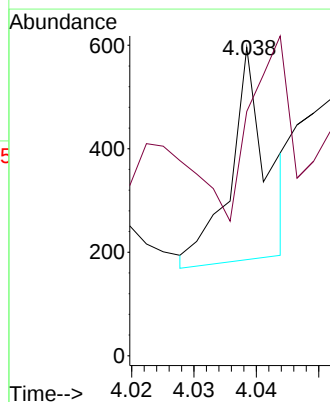
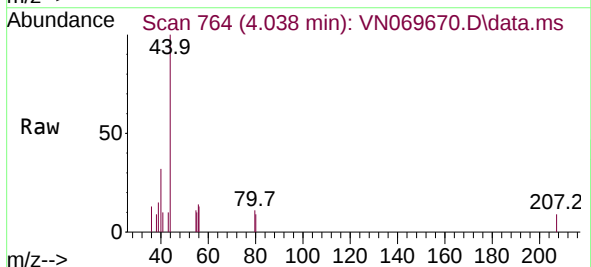
Instrument :  
MSVOA\_N  
ClientSampleId :

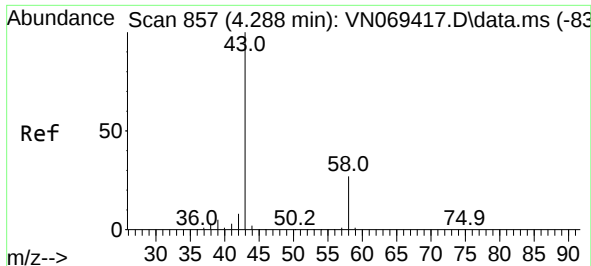
Tgt Ion:168 Resp: 1725141  
Ion Ratio Lower Upper  
168 100  
99 60.5 41.3 61.9



#13  
Acrolein  
Concen: Below Cal  
RT: 4.038 min Scan# 764  
Delta R.T. -0.003 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

Tgt Ion: 56 Resp: 165  
Ion Ratio Lower Upper  
56 100  
55 102.4 56.6 85.0#

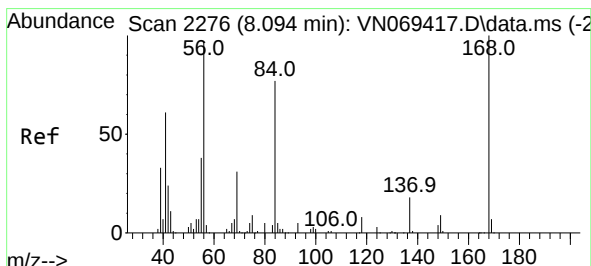
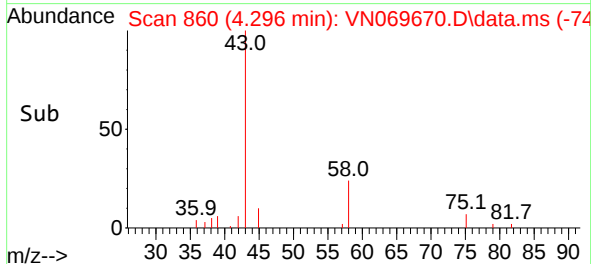
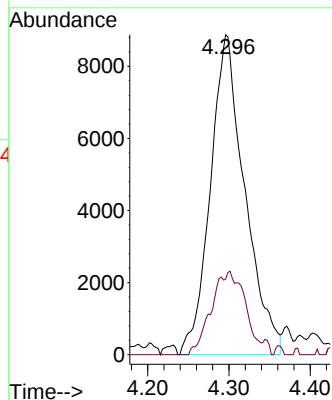
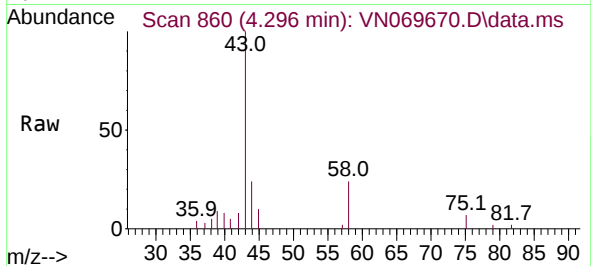




#16  
Acetone  
Concen: 1.937 ug/l  
RT: 4.296 min Scan# 80  
Delta R.T. 0.008 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

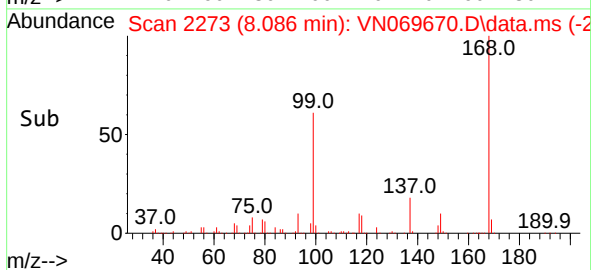
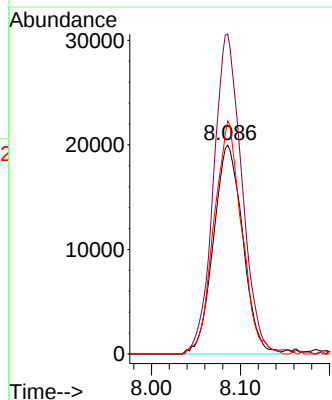
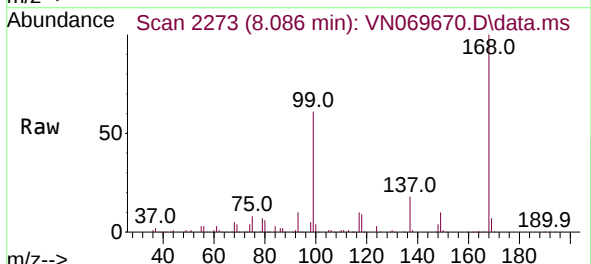
Instrument :  
MSVOA\_N  
ClientSampleId :

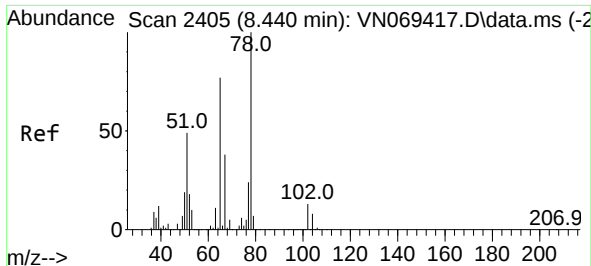
Tgt Ion: 43 Resp: 26137  
Ion Ratio Lower Upper  
43 100  
58 23.6 23.1 34.7



#31  
Cyclohexane  
Concen: 1.338 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.008 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

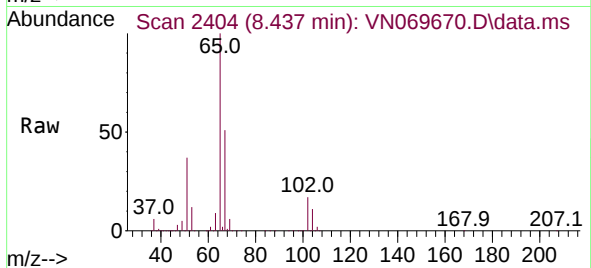
Tgt Ion: 56 Resp: 45719  
Ion Ratio Lower Upper  
56 100  
69 153.2 27.1 40.7#  
84 111.6 73.4 110.0#



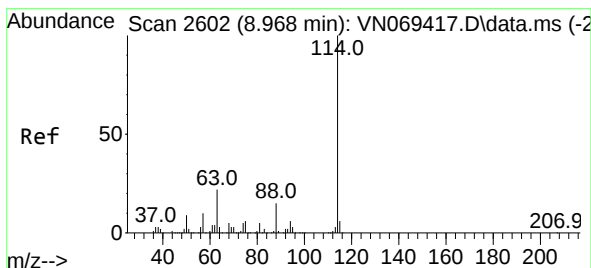
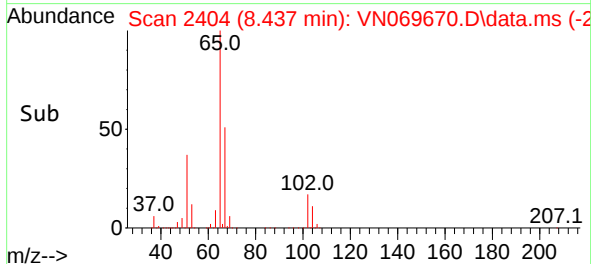
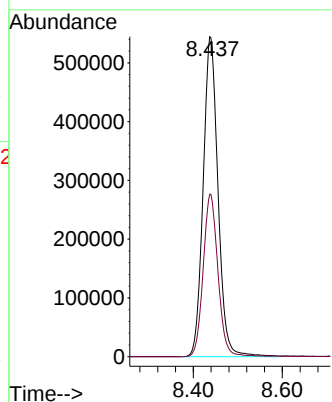


#33  
 1,2-Dichloroethane-d4  
 Concen: 50.403 ug/l  
 RT: 8.437 min Scan# 2405  
 Delta R.T. -0.003 min  
 Lab File: VN069670.D  
 Acq: 29 Nov 2021 17:52

Instrument :  
 MSVOA\_N  
 ClientSampleId :

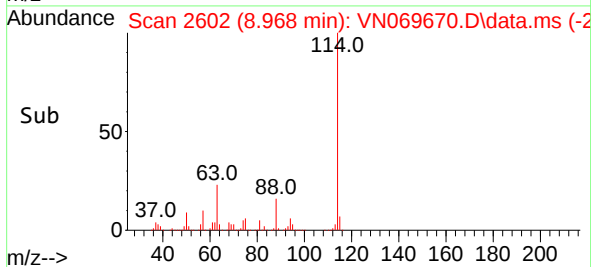
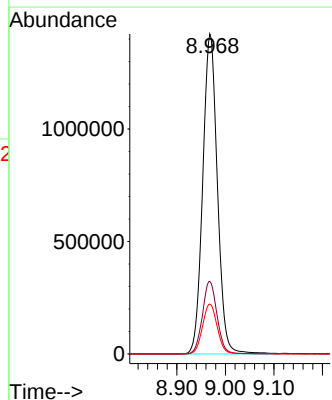
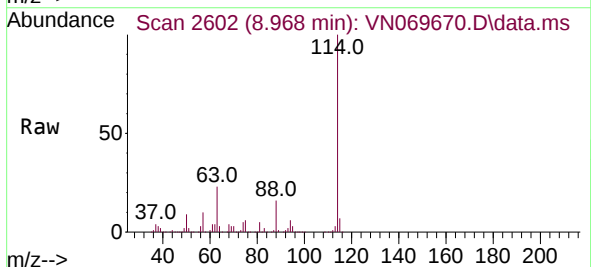


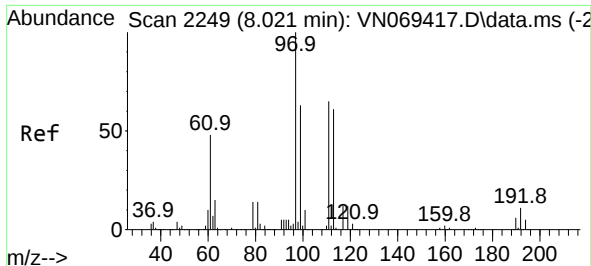
Tgt Ion: 65 Resp: 1260753  
 Ion Ratio Lower Upper  
 65 100  
 67 50.2 0.0 103.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.968 min Scan# 2602  
 Delta R.T. -0.000 min  
 Lab File: VN069670.D  
 Acq: 29 Nov 2021 17:52

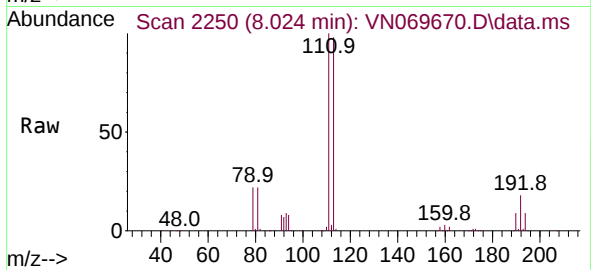
Tgt Ion: 114 Resp: 2983219  
 Ion Ratio Lower Upper  
 114 100  
 63 22.7 0.0 37.8  
 88 15.6 0.0 27.4



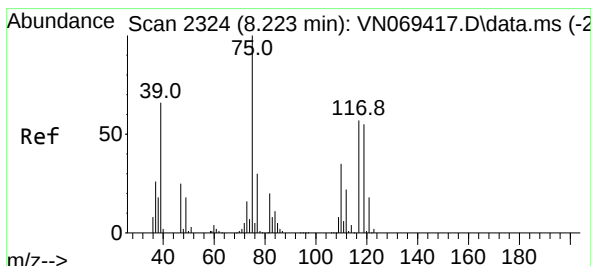
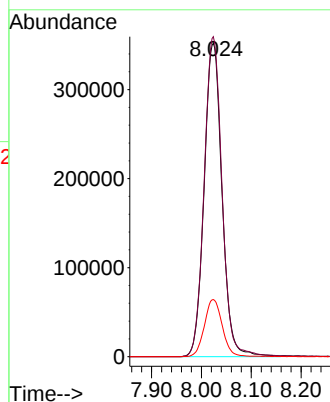
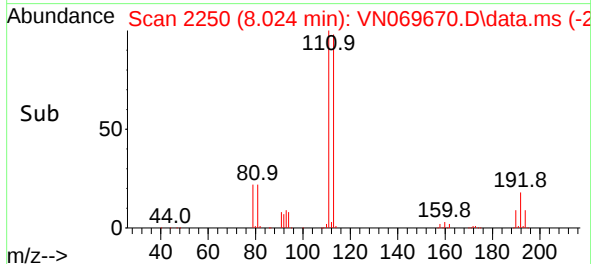


#35  
Dibromofluoromethane  
Concen: 49.061 ug/l  
RT: 8.024 min Scan# 211  
Delta R.T. 0.003 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

Instrument :  
MSVOA\_N  
ClientSampleId :

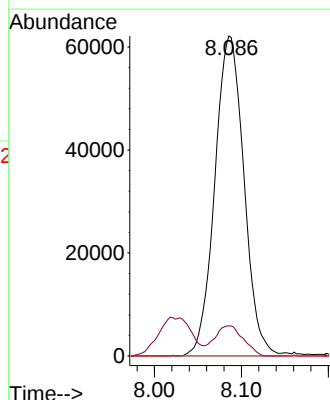
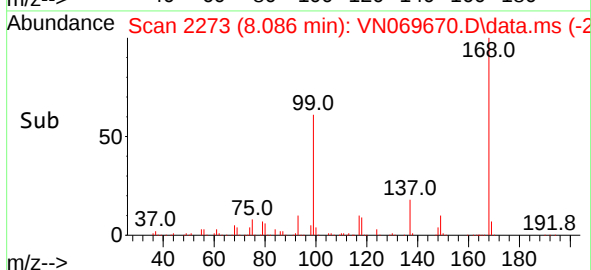
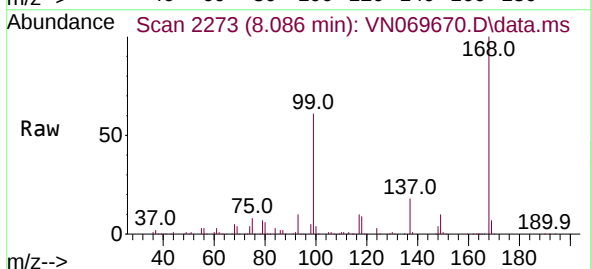


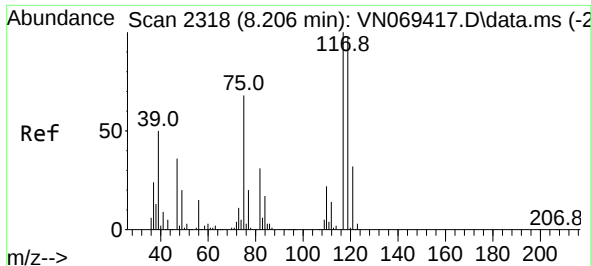
Tgt Ion:113 Resp: 877808  
Ion Ratio Lower Upper  
113 100  
111 102.2 82.2 123.2  
192 18.2 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 5.755 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.137 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

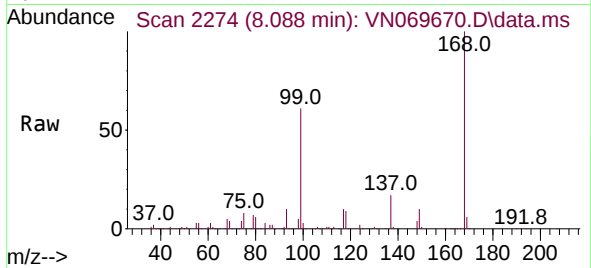
Tgt Ion: 75 Resp: 144452  
Ion Ratio Lower Upper  
75 100  
110 9.2 18.4 55.2#  
77 0.0 24.4 36.6#



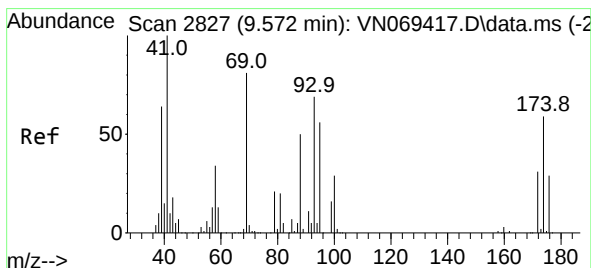
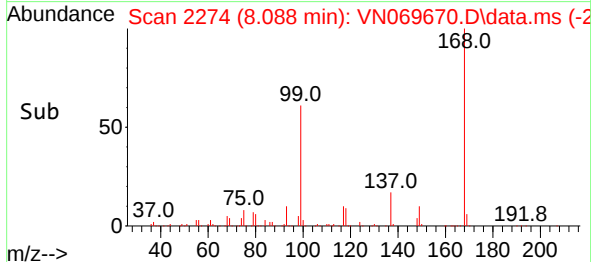
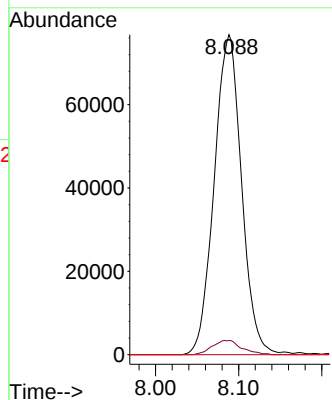


#38  
Carbon Tetrachloride  
Concen: 7.225 ug/l  
RT: 8.088 min Scan# 211  
Delta R.T. -0.118 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

Instrument :  
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ClientSampleId :

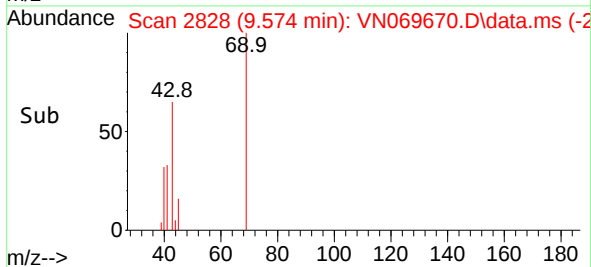
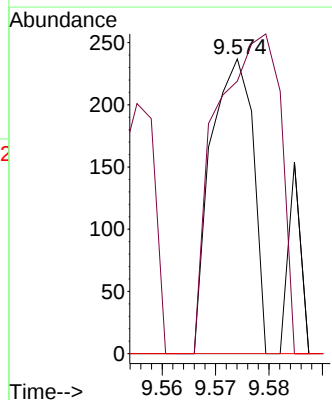
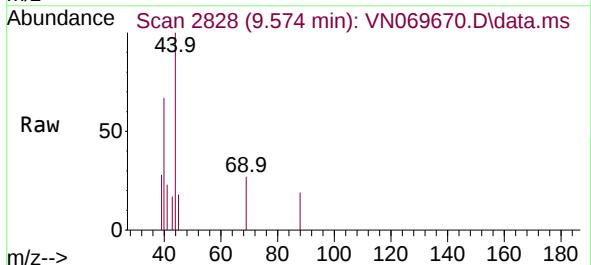


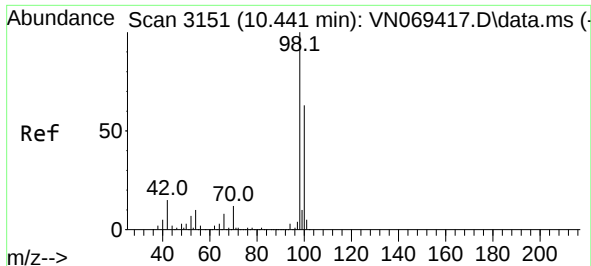
Tgt Ion:117 Resp: 175103  
Ion Ratio Lower Upper  
117 100  
119 4.4 76.1 114.1#  
121 0.0 24.2 36.2#



#49  
1,4-Dioxane  
Concen: 39.305 ug/l  
RT: 9.574 min Scan# 2828  
Delta R.T. 0.002 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

Tgt Ion: 88 Resp: 130  
Ion Ratio Lower Upper  
88 100  
43 164.6 23.4 35.2#  
58 0.0 50.6 75.8#

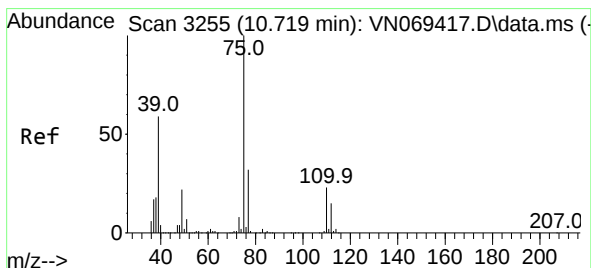
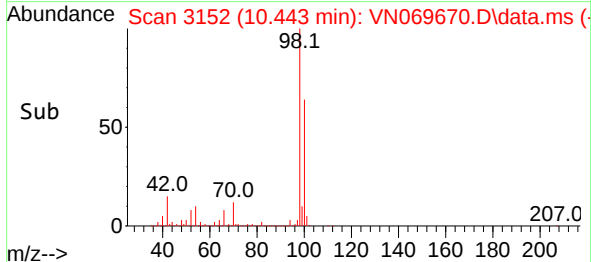
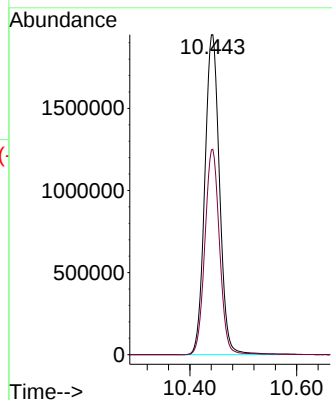
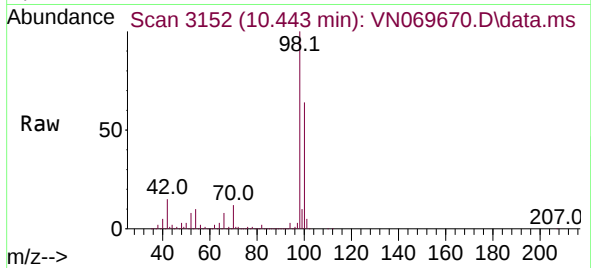




#50  
Toluene-d8  
Concen: 52.933 ug/l  
RT: 10.443 min Scan# 3151  
Delta R.T. 0.002 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

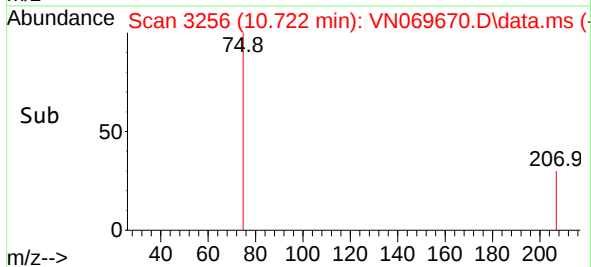
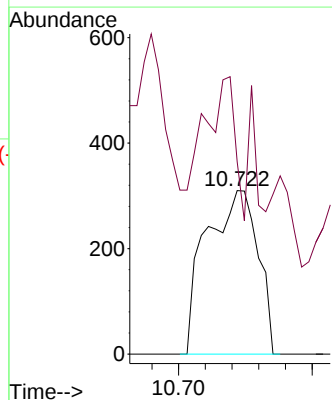
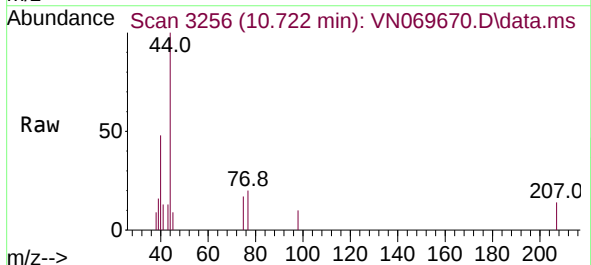
Instrument :  
MSVOA\_N  
ClientSampleId :

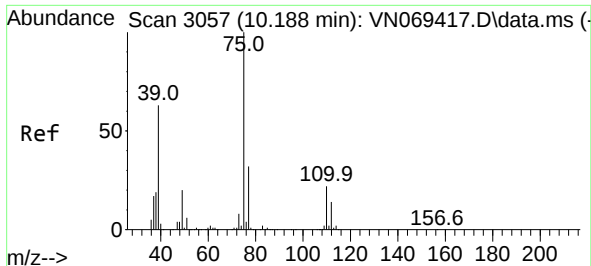
Tgt Ion: 98 Resp: 3724850  
Ion Ratio Lower Upper  
98 100  
100 64.0 50.4 75.6



#53  
t-1,3-Dichloropropene  
Concen: 2.650 ug/l  
RT: 10.722 min Scan# 3256  
Delta R.T. 0.003 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

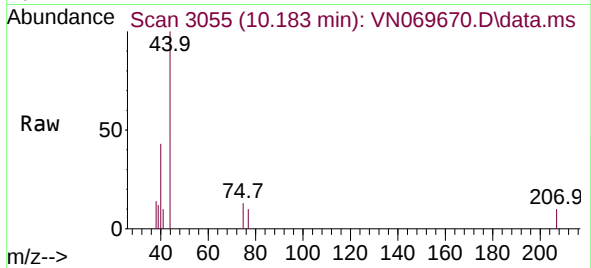
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Ion Ratio Lower Upper  
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77 17.4 25.6 38.4#



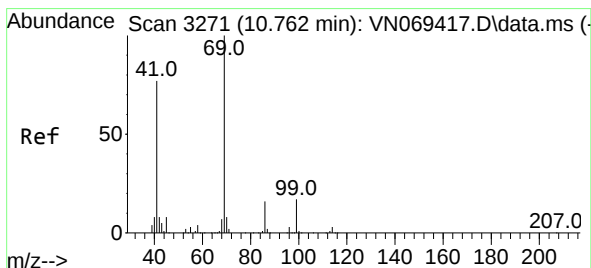
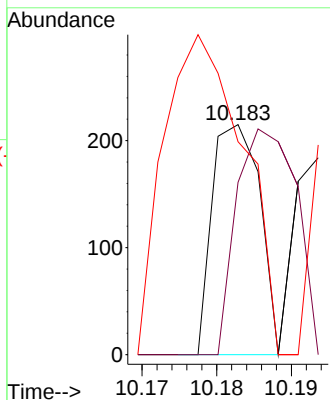
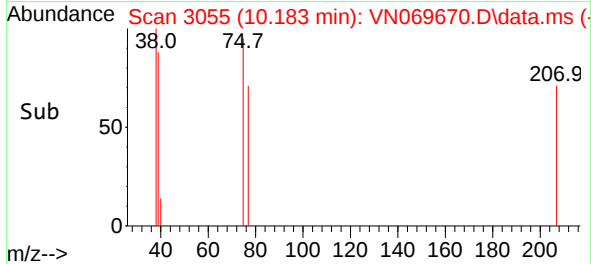


#54  
 cis-1,3-Dichloropropene  
 Concen: 1.736 ug/l  
 RT: 10.183 min Scan# 3055  
 Delta R.T. -0.005 min  
 Lab File: VN069670.D  
 Acq: 29 Nov 2021 17:52

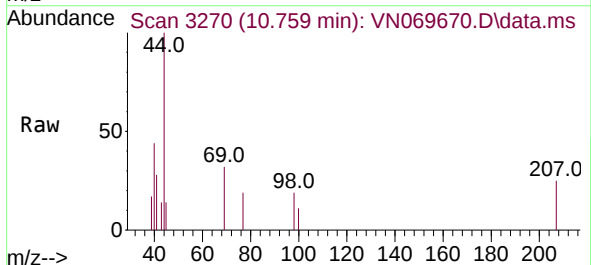
Instrument :  
 MSVOA\_N  
 ClientSampleId :



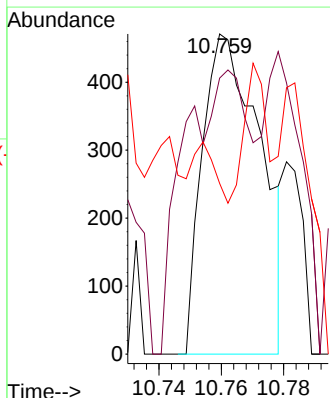
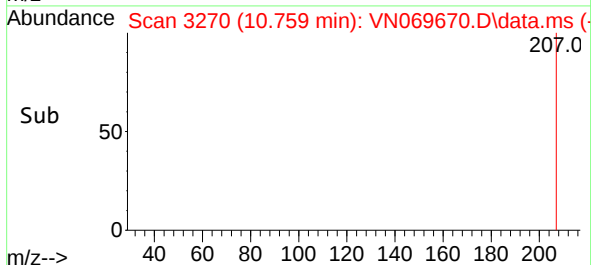
Tgt Ion: 75 Resp: 95  
 Ion Ratio Lower Upper  
 75 100  
 77 74.9 26.4 39.6#  
 39 92.6 42.5 63.7#

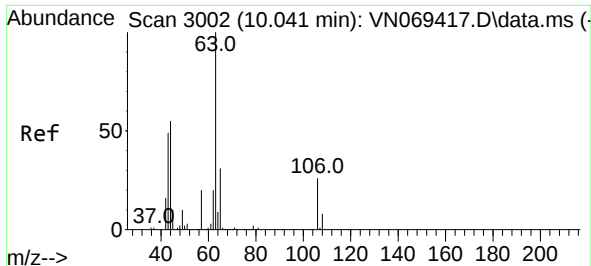


#56  
 Ethyl methacrylate  
 Concen: 2.069 ug/l  
 RT: 10.759 min Scan# 3270  
 Delta R.T. -0.003 min  
 Lab File: VN069670.D  
 Acq: 29 Nov 2021 17:52



Tgt Ion: 69 Resp: 609  
 Ion Ratio Lower Upper  
 69 100  
 41 39.9 51.4 77.0#  
 39 15.6 34.6 52.0#

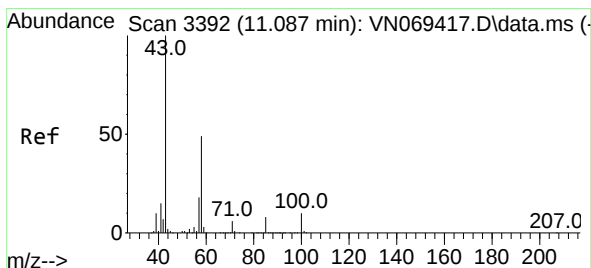
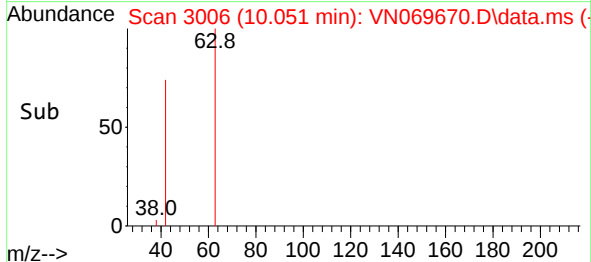
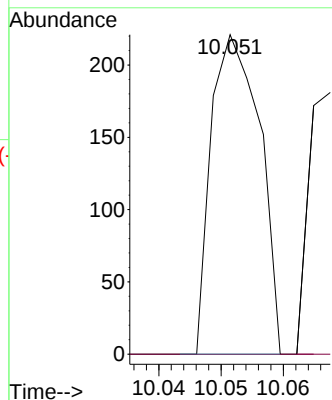
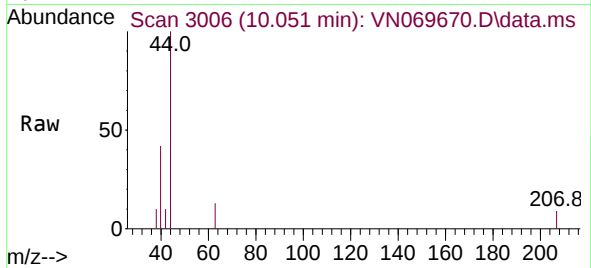




#58  
2-Chloroethyl Vinyl ether  
Concen: 22.782 ug/l  
RT: 10.051 min Scan# 3006  
Delta R.T. 0.010 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

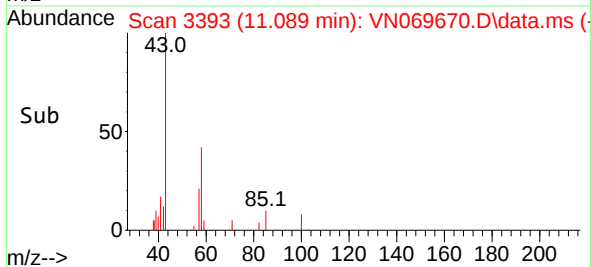
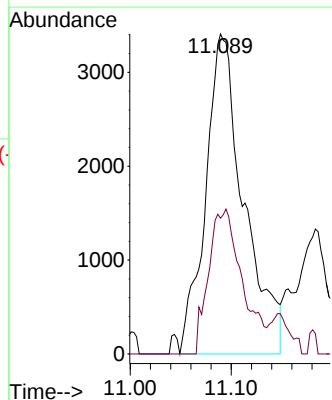
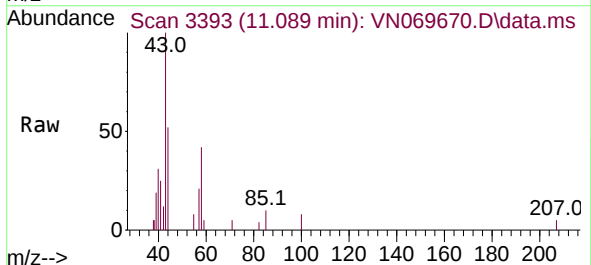
Instrument :  
MSVOA\_N  
ClientSampleId :

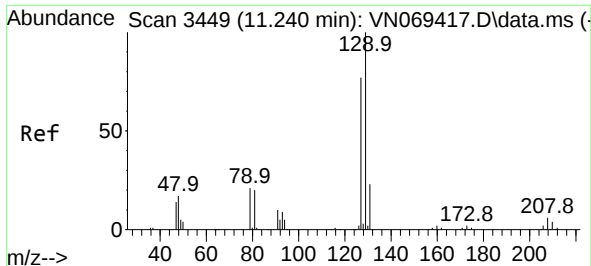
Tgt Ion: 63 Resp: 120  
Ion Ratio Lower Upper  
63 100  
106 0.0 23.9 35.9#



#59  
2-Hexanone  
Concen: 8.234 ug/l  
RT: 11.089 min Scan# 3393  
Delta R.T. 0.002 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

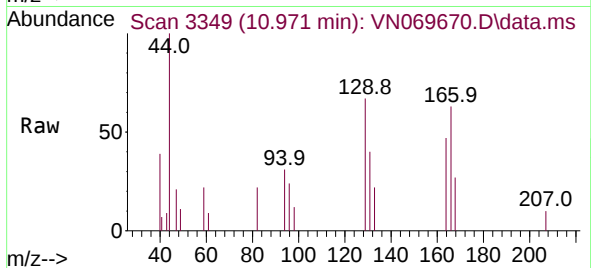
Tgt Ion: 43 Resp: 8963  
Ion Ratio Lower Upper  
43 100  
58 39.8 26.9 80.7



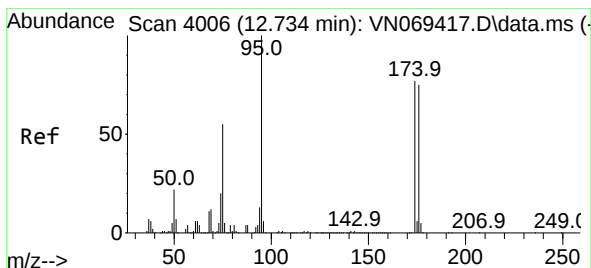
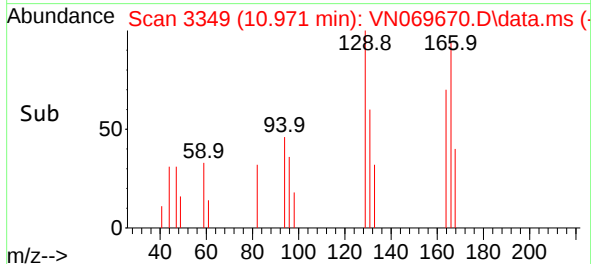
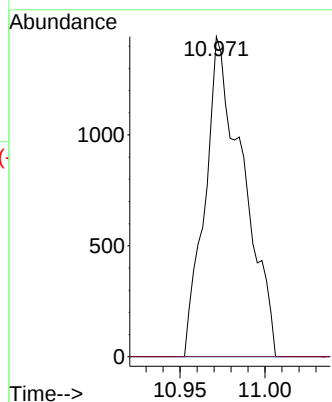


#60  
Dibromochloromethane  
Concen: 2.518 ug/l  
RT: 10.971 min Scan# 31  
Delta R.T. -0.269 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

Instrument :  
MSVOA\_N  
ClientSampleId :

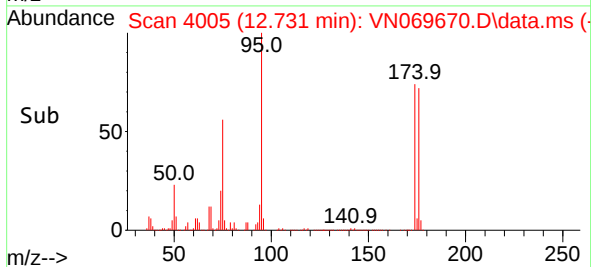
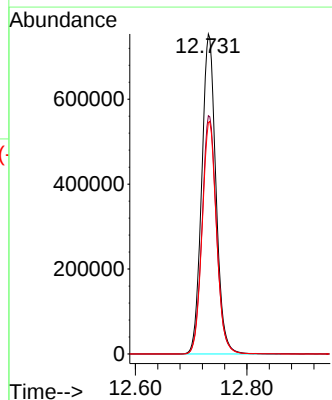
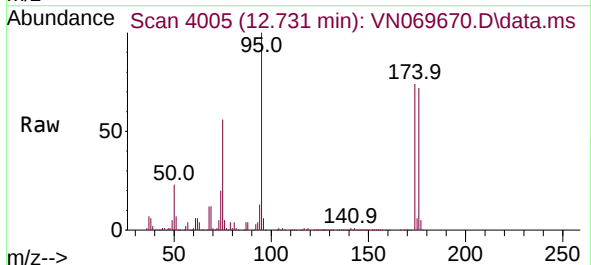


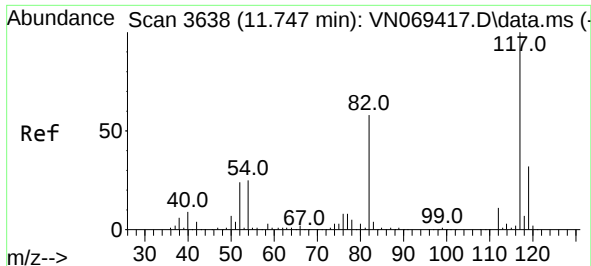
Tgt Ion:129 Resp: 2254  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.6 116.0#



#62  
4-Bromofluorobenzene  
Concen: 51.466 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. -0.003 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

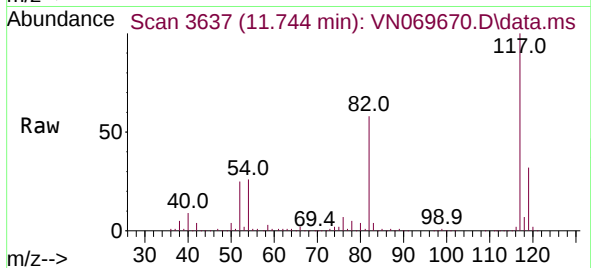
Tgt Ion: 95 Resp: 1330442  
Ion Ratio Lower Upper  
95 100  
174 75.7 0.0 187.2  
176 73.7 0.0 181.4



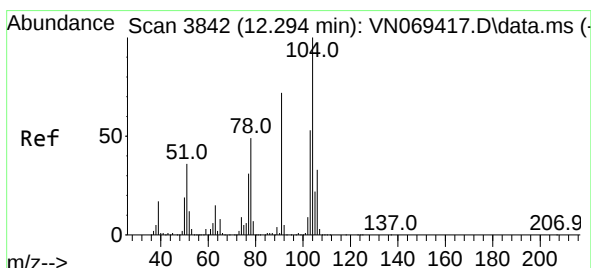
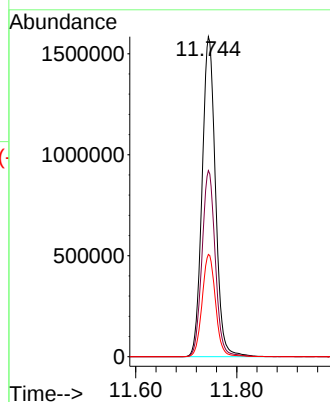
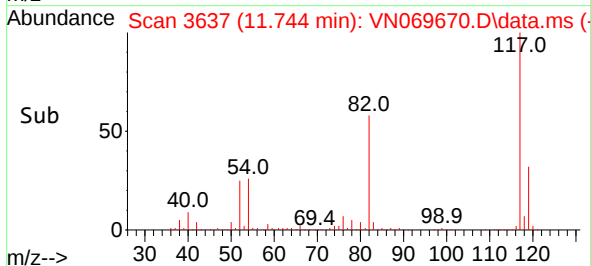


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.744 min Scan# 3637  
Delta R.T. -0.003 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

Instrument :  
MSVOA\_N  
ClientSampleId :

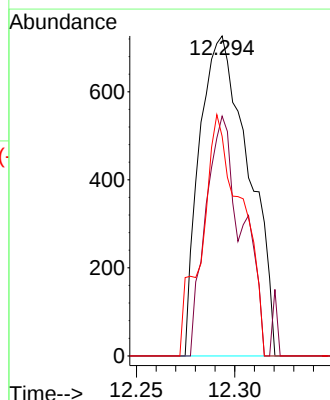
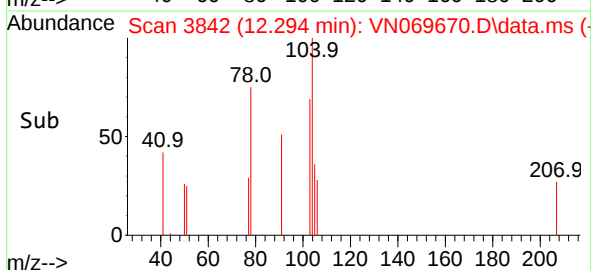
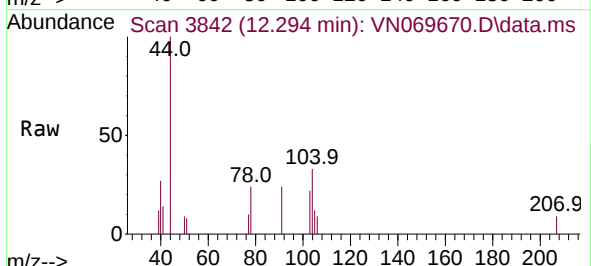


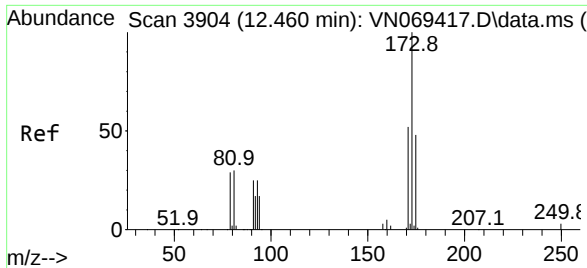
Tgt Ion:117 Resp: 2913472  
Ion Ratio Lower Upper  
117 100  
82 58.1 42.4 63.6  
119 31.9 25.4 38.2



#70  
Styrene  
Concen: 1.539 ug/l  
RT: 12.294 min Scan# 3842  
Delta R.T. -0.000 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

Tgt Ion:104 Resp: 1258  
Ion Ratio Lower Upper  
104 100  
78 55.5 38.7 58.1  
103 61.6 45.0 67.6

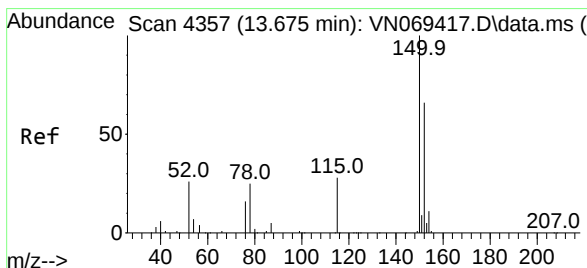
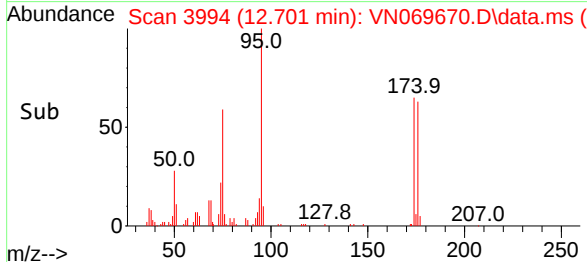
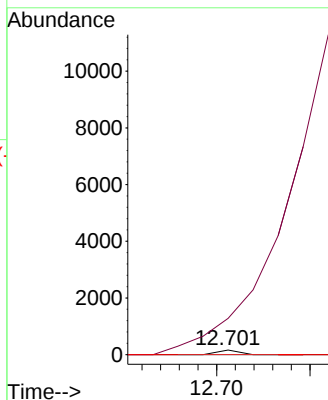
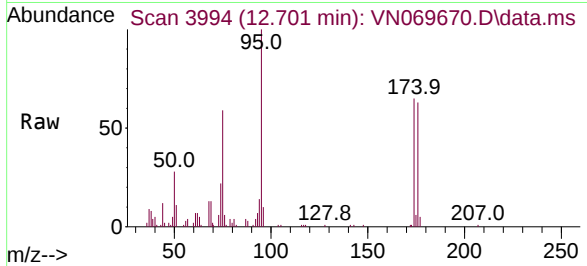




#71  
Bromoform  
Concen: 3.429 ug/l  
RT: 12.701 min Scan# 3904  
Delta R.T. 0.241 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

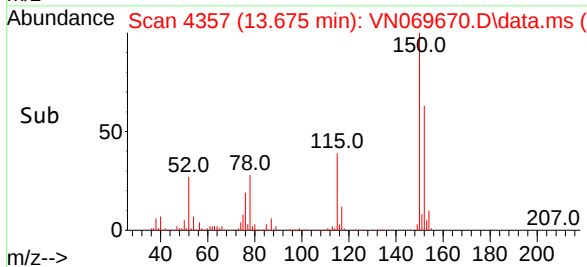
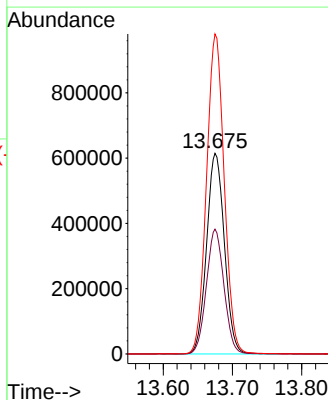
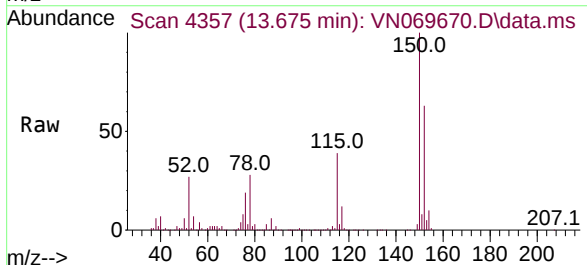
Instrument :  
MSVOA\_N  
ClientSampleId :

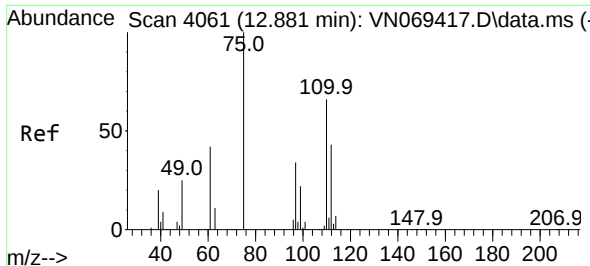
Tgt Ion:173 Resp: 26  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.2 72.6#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.675 min Scan# 4357  
Delta R.T. -0.000 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

Tgt Ion:152 Resp: 1099795  
Ion Ratio Lower Upper  
152 100  
115 61.4 27.5 82.5  
150 158.0 0.0 344.4

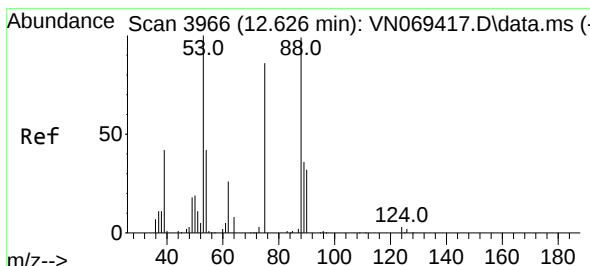
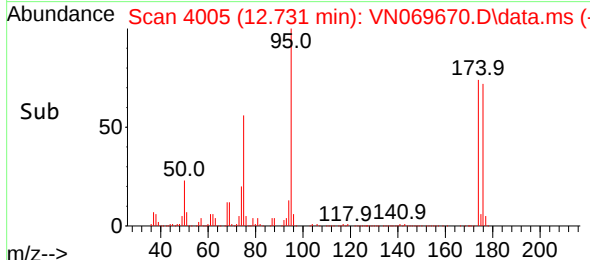
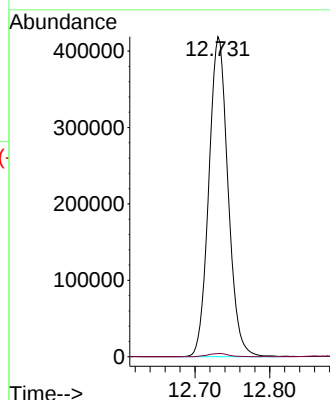
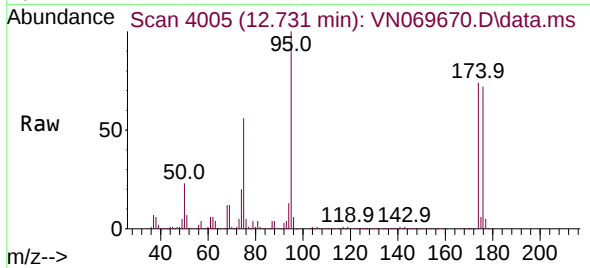




#76  
1,2,3-Trichloropropane  
Concen: 29.410 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. -0.150 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

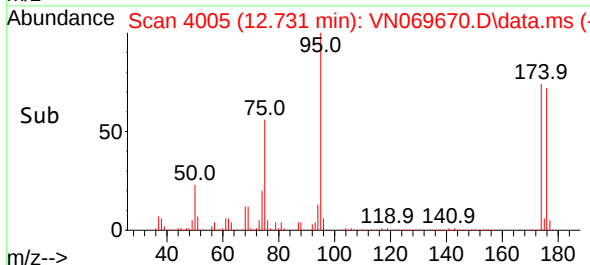
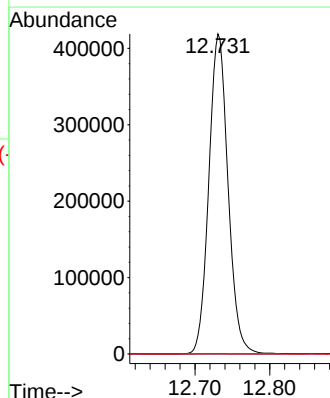
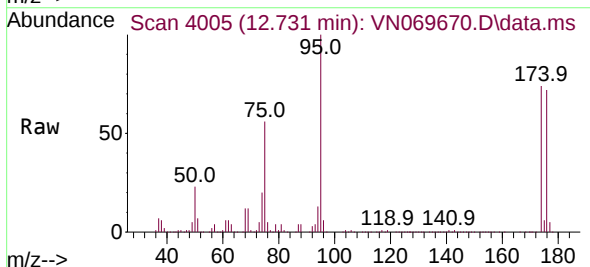
Instrument :  
MSVOA\_N  
ClientSampleId :

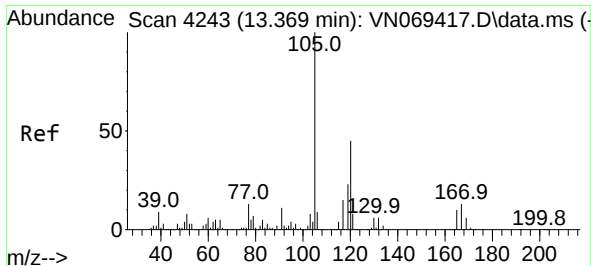
Tgt Ion: 75 Resp: 746441  
Ion Ratio Lower Upper  
75 100  
77 1.1 82.6 247.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 83.198 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. 0.105 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

Tgt Ion: 75 Resp: 746441  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 38.2 57.4#

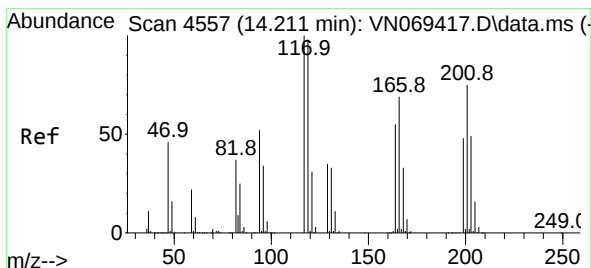
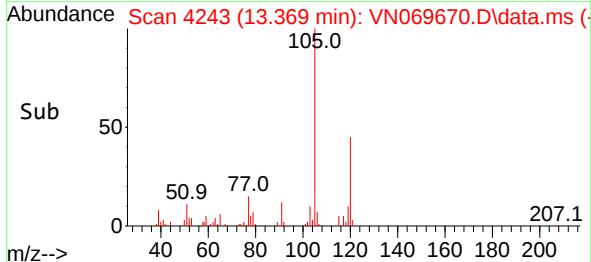
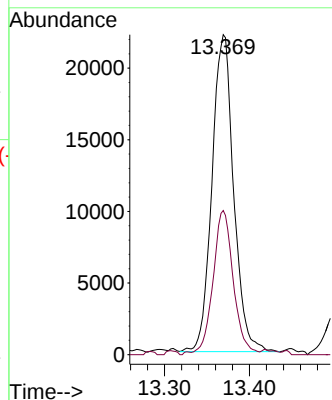
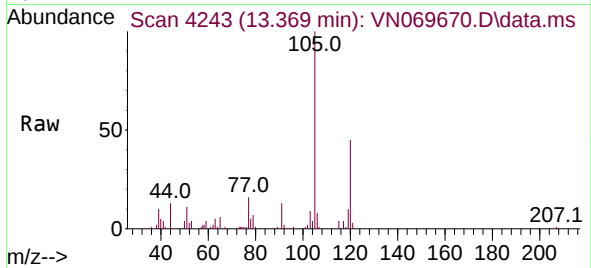




#84  
1,2,4-Trimethylbenzene  
Concen: 0.574 ug/l  
RT: 13.369 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

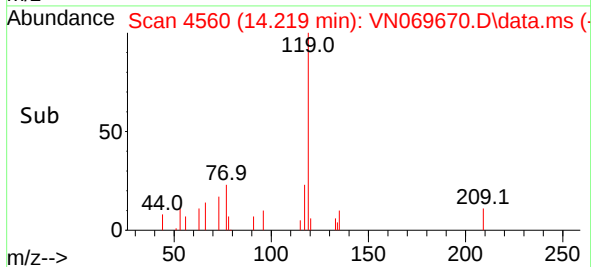
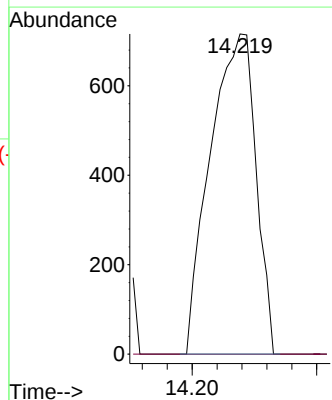
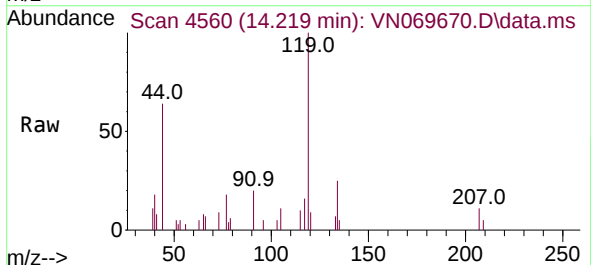
Instrument :  
MSVOA\_N  
ClientSampleId :

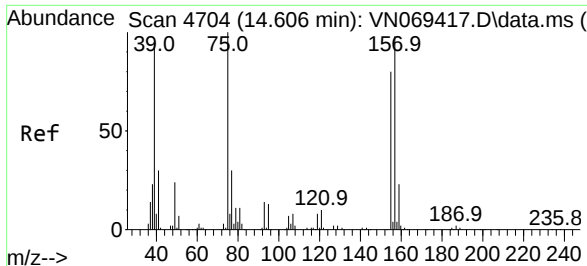
Tgt Ion:105 Resp: 39232  
Ion Ratio Lower Upper  
105 100  
120 40.6 22.8 68.4



#90  
Hexachloroethane  
Concen: 2.231 ug/l  
RT: 14.219 min Scan# 4560  
Delta R.T. 0.008 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

Tgt Ion:117 Resp: 910  
Ion Ratio Lower Upper  
117 100  
201 0.0 43.9 131.6#

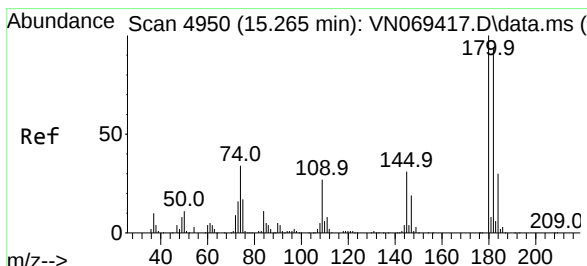
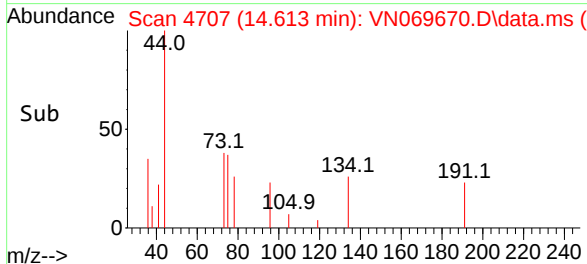
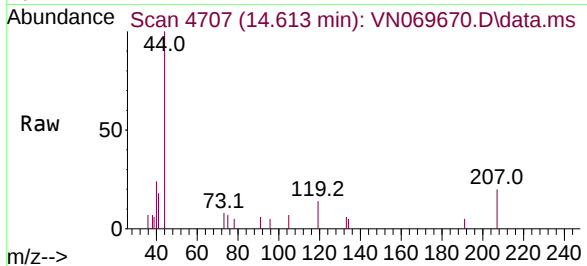




#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 1.820 ug/l  
 RT: 14.613 min Scan# 41  
 Delta R.T. 0.007 min  
 Lab File: VN069670.D  
 Acq: 29 Nov 2021 17:52

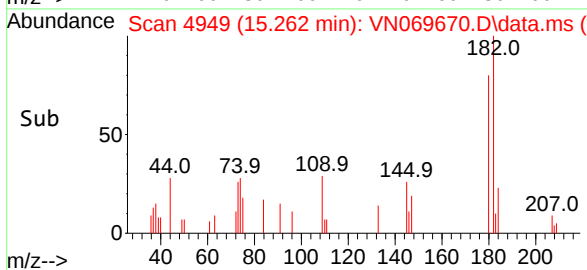
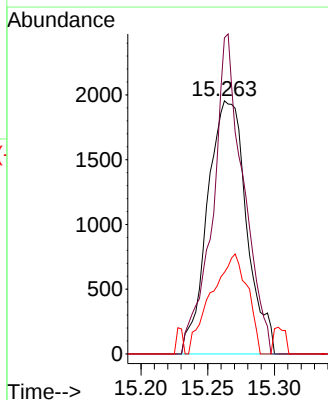
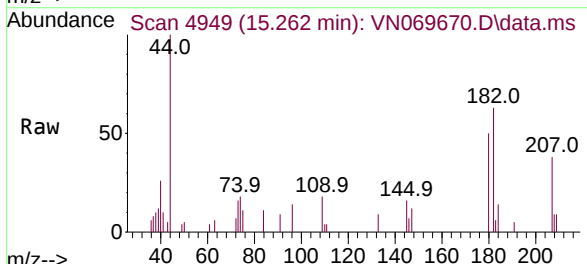
Instrument :  
 MSVOA\_N  
 ClientSampleId :

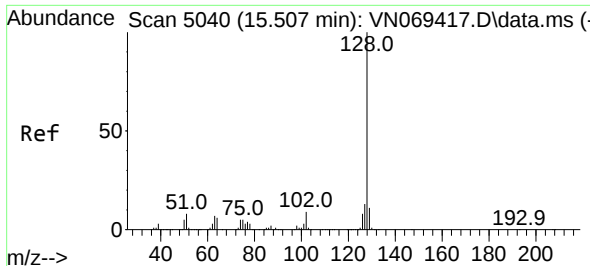
Tgt Ion: 75 Resp: 134  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 46.9 140.7#  
 157 0.0 60.6 181.7#



#93  
 1,2,4-Trichlorobenzene  
 Concen: 3.329 ug/l  
 RT: 15.262 min Scan# 4949  
 Delta R.T. -0.003 min  
 Lab File: VN069670.D  
 Acq: 29 Nov 2021 17:52

Tgt Ion: 180 Resp: 3978  
 Ion Ratio Lower Upper  
 180 100  
 182 99.1 48.3 144.9  
 145 36.6 14.5 43.5

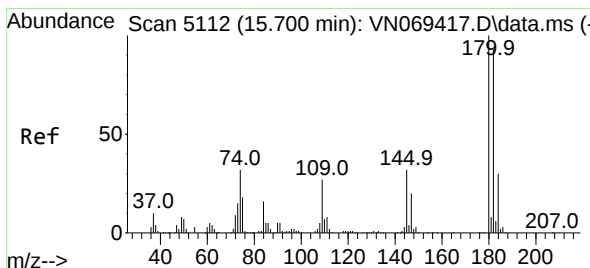
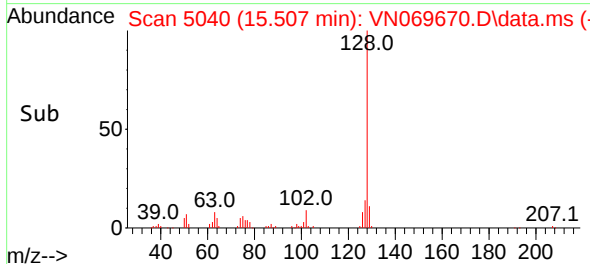
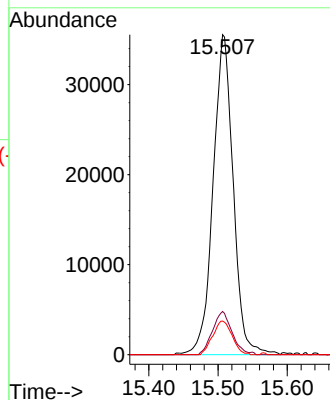
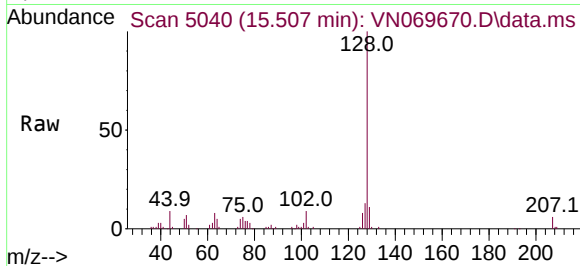




#95  
Naphthalene  
Concen: 5.790 ug/l  
RT: 15.507 min Scan# 5040  
Delta R.T. -0.000 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

Instrument :  
MSVOA\_N  
ClientSampleId :

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.1  | 10.5  | 15.7  |
| 129     | 10.1  | 8.7   | 13.1  |



#96  
1,2,3-Trichlorobenzene  
Concen: 3.446 ug/l  
RT: 15.708 min Scan# 5115  
Delta R.T. 0.008 min  
Lab File: VN069670.D  
Acq: 29 Nov 2021 17:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 83.6  | 47.4  | 142.2 |
| 145     | 20.9  | 15.0  | 45.1  |

