

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121120\  
 Data File : VN065077.D  
 Acq On : 11 Dec 2020 18:29  
 Operator : JC/MD  
 Sample : VN1211WBL01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 12 04:21:59 2020  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121120W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Dec 12 04:18:15 2020  
 Response via : Initial Calibration

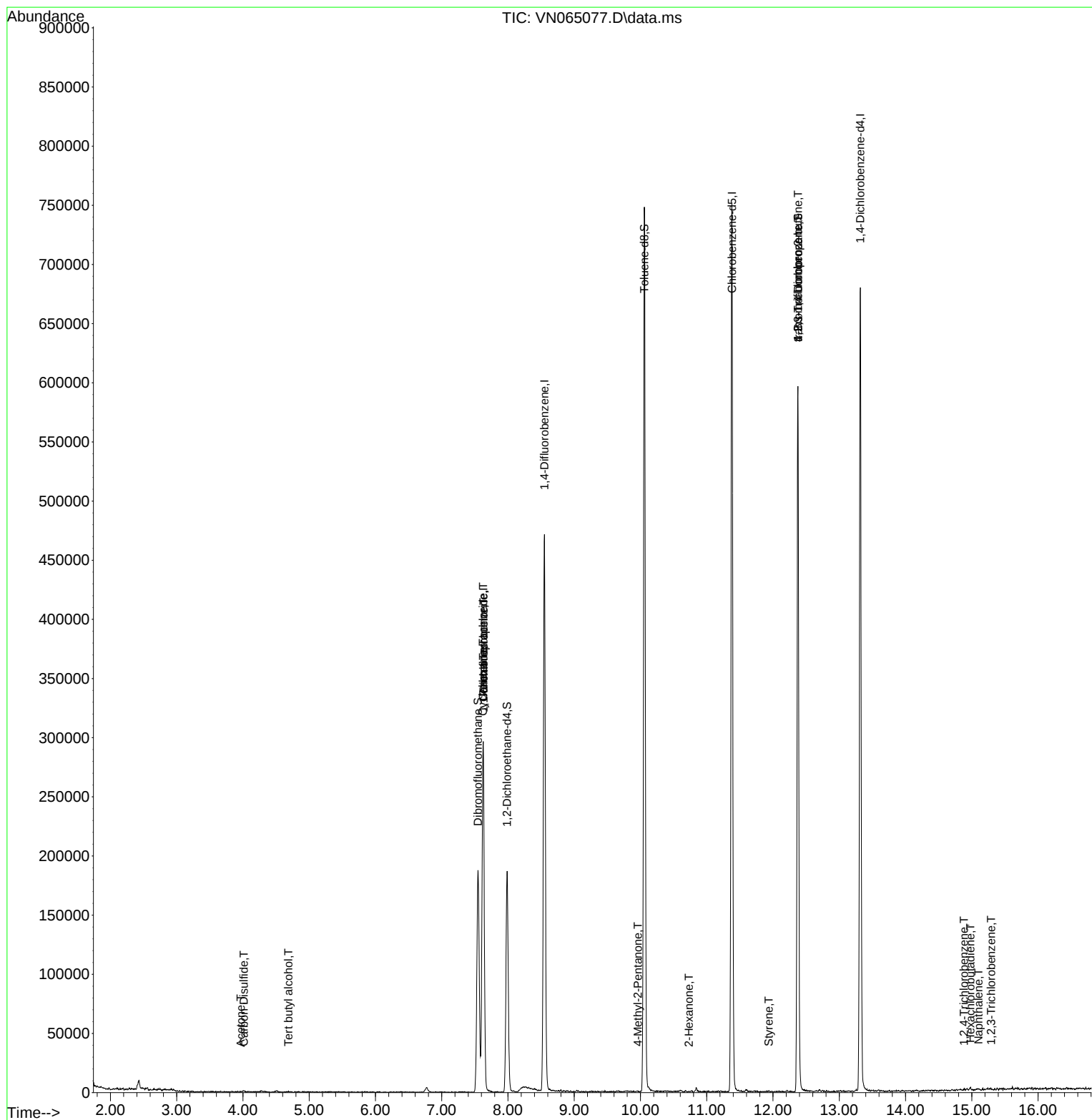
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.627  | 168   | 248086   | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.550  | 114   | 421984   | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.380 | 117   | 446158   | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.318 | 152   | 195409   | 50.00     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 7.987  | 65    | 160973   | 55.82     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery  | =      | 111.64%  |
| 35) Dibromofluoromethane      | 7.547  | 113   | 140965   | 49.36     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery  | =      | 98.72%   |
| 50) Toluene-d8                | 10.058 | 98    | 519325   | 50.11     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery  | =      | 100.22%  |
| 62) 4-Bromofluorobenzene      | 12.376 | 95    | 196119   | 53.89     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery  | =      | 107.78%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 11) Tert butyl alcohol        | 4.685  | 59    | 157      | 0.44      | ug/l # | 73       |
| 16) Acetone                   | 3.968  | 43    | 70       | 9.83      | ug/l # | 43       |
| 17) Carbon Disulfide          | 4.013  | 76    | 2097     | 0.33      | ug/l # | 75       |
| 20) Methylene Chloride        | 4.496  | 84    | 695      | Below Cal | #      | 12       |
| 31) Cyclohexane               | 7.621  | 56    | 4939     | 1.33      | ug/l # | 48       |
| 36) 1,1-Dichloropropene       | 7.630  | 75    | 17465    | 4.54      | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 7.624  | 117   | 24519    | 5.65      | ug/l # | 16       |
| 51) 4-Methyl-2-Pentanone      | 9.958  | 43    | 1033     | 0.31      | ug/l # | 35       |
| 59) 2-Hexanone                | 10.730 | 43    | 386      | 8.73      | ug/l # | 23       |
| 70) Styrene                   | 11.936 | 104   | 202      | 1.87      | ug/l # | 26       |
| 76) 1,2,3-Trichloropropane    | 12.376 | 75    | 101574   | 28.10     | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.376 | 75    | 101574   | 81.10     | ug/l # | 15       |
| 93) 1,2,4-Trichlorobenzene    | 14.881 | 180   | 96       | 4.15      | ug/l # | 1        |
| 94) Hexachlorobutadiene       | 14.981 | 225   | 540      | 0.27      | ug/l   | 82       |
| 95) Naphthalene               | 15.103 | 128   | 562      | 4.80      | ug/l # | 69       |
| 96) 1,2,3-Trichlorobenzene    | 15.293 | 180   | 92       | 4.61      | ug/l # | 1        |
| -----                         |        |       |          |           |        |          |

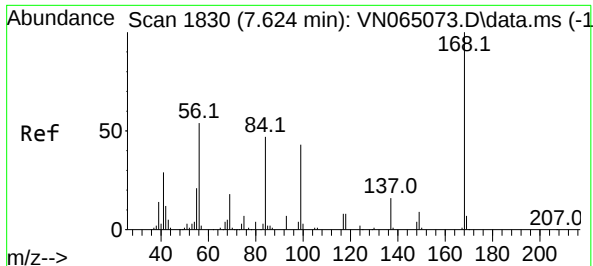
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121120\  
Data File : VN065077.D  
Acq On : 11 Dec 2020 18:29  
Operator : JC/MD  
Sample : VN1211WBL01  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Dec 12 04:21:59 2020  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121120W.M  
Quant Title : SW846 8260  
QLast Update : Sat Dec 12 04:18:15 2020  
Response via : Initial Calibration

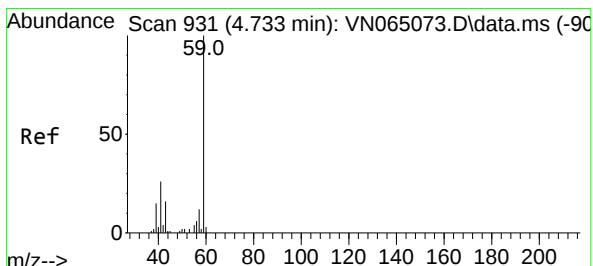
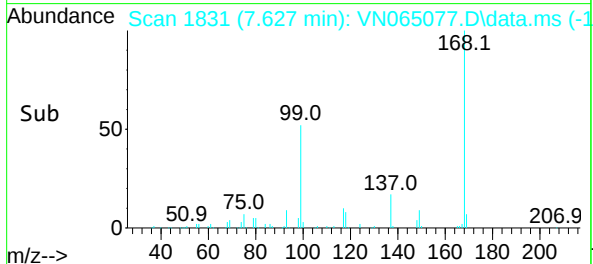
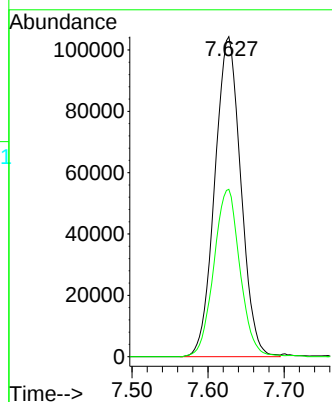
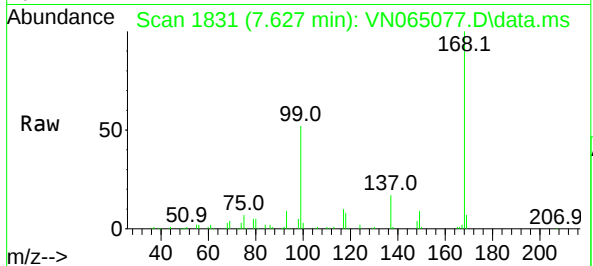




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.627 min Scan# 1831  
Delta R.T. 0.003 min  
Lab File: VN065077.D  
Acq: 11 Dec 2020 18:29

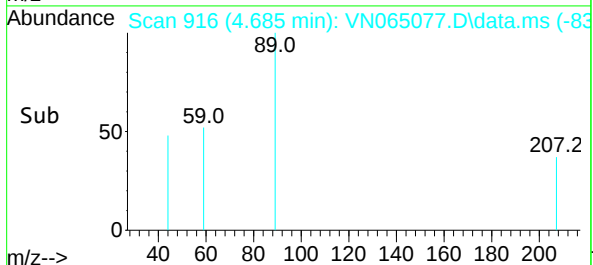
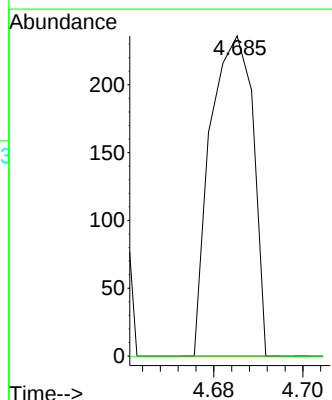
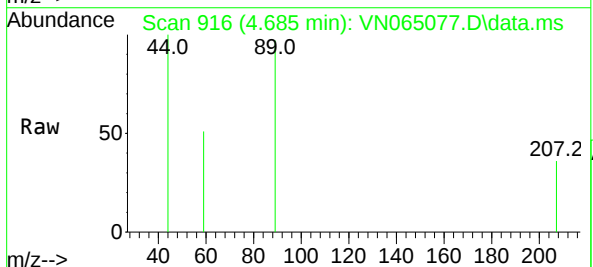
Instrument :  
MSVOA\_N  
ClientSampled :

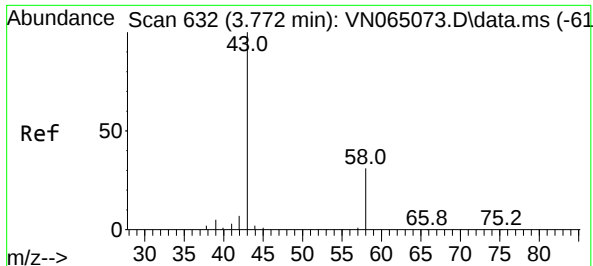
Tgt Ion:168 Resp: 248086  
Ion Ratio Lower Upper  
168 100  
99 52.3 43.0 64.4



#11  
Tert butyl alcohol  
Concen: 0.44 ug/l  
RT: 4.685 min Scan# 916  
Delta R.T. -0.048 min  
Lab File: VN065077.D  
Acq: 11 Dec 2020 18:29

Tgt Ion: 59 Resp: 157  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.9 11.9#

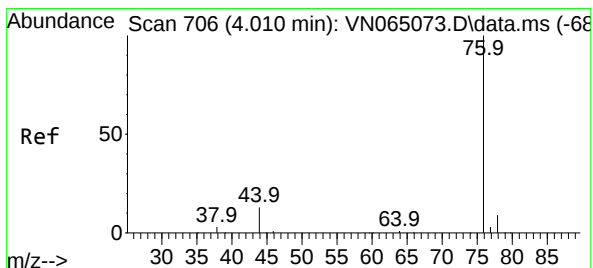
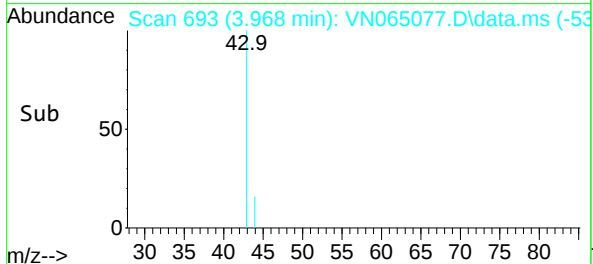
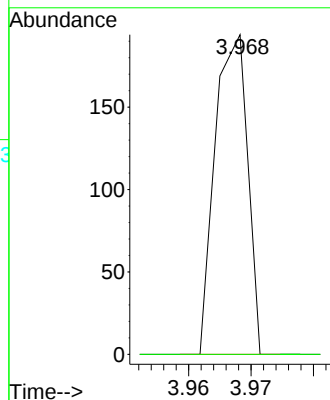
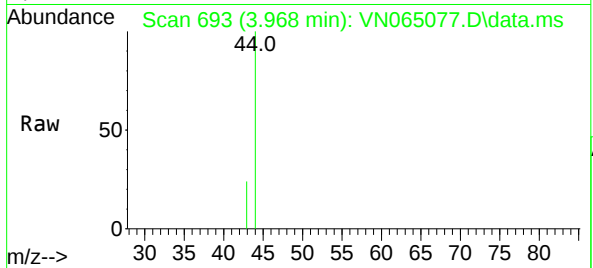




#16  
Acetone  
Concen: 9.83 ug/l  
RT: 3.968 min Scan# 693  
Delta R.T. 0.196 min  
Lab File: VN065077.D  
Acq: 11 Dec 2020 18:29

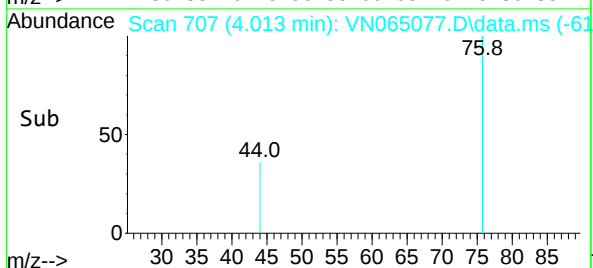
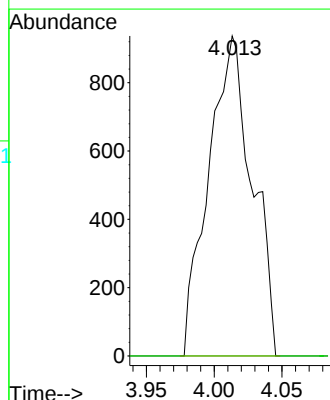
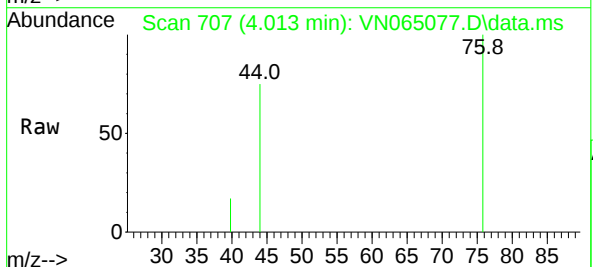
Instrument :  
MSVOA\_N  
ClientSampled :

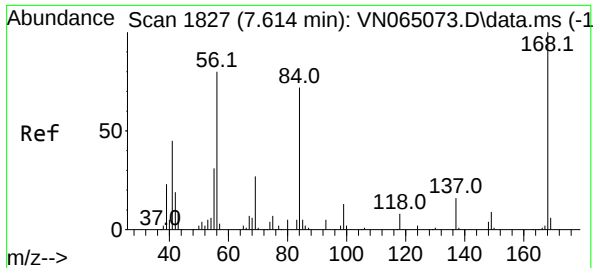
Tgt Ion: 43 Resp: 70  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.7 38.5#



#17  
Carbon Disulfide  
Concen: 0.33 ug/l  
RT: 4.013 min Scan# 707  
Delta R.T. 0.003 min  
Lab File: VN065077.D  
Acq: 11 Dec 2020 18:29

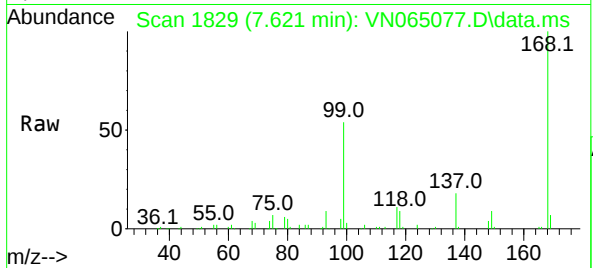
Tgt Ion: 76 Resp: 2097  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.4 11.0#



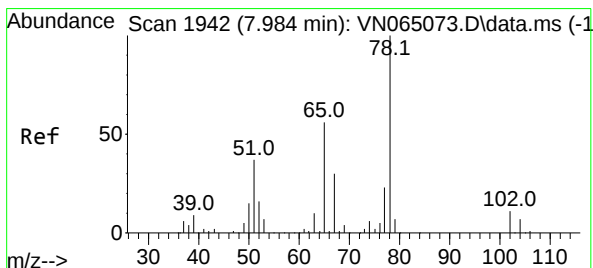
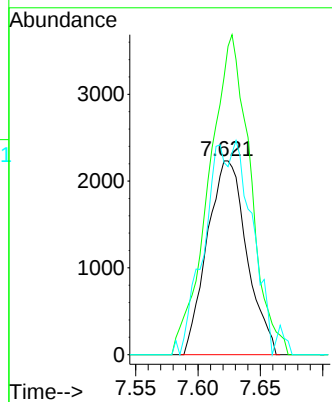
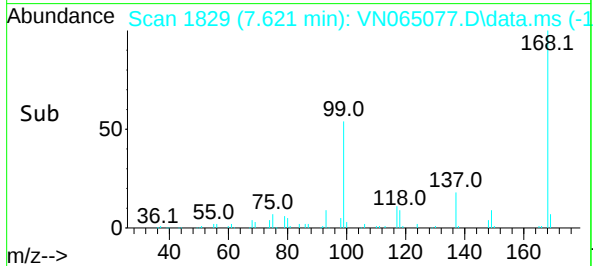


#31  
Cyclohexane  
Concen: 1.33 ug/l  
RT: 7.621 min Scan# 1829  
Delta R.T. 0.007 min  
Lab File: VN065077.D  
Acq: 11 Dec 2020 18:29

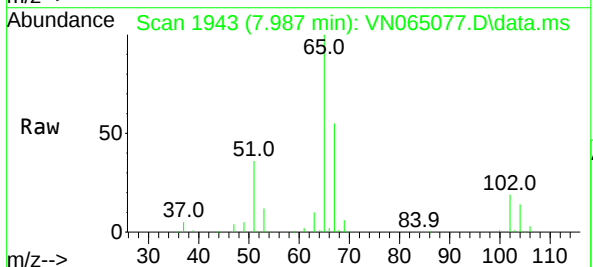
Instrument :  
MSVOA\_N  
ClientSampled :



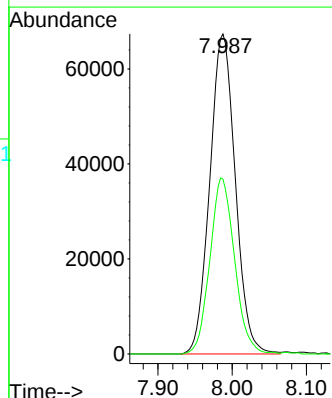
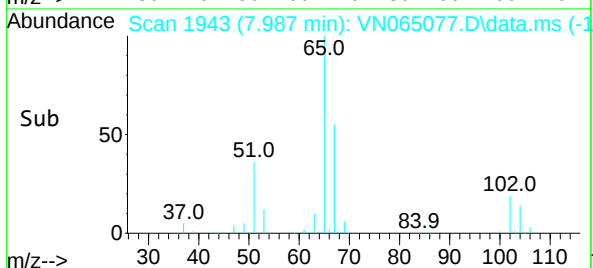
Tgt Ion: 56 Resp: 4939  
Ion Ratio Lower Upper  
56 100  
69 133.2 27.5 41.3#  
84 99.1 73.9 110.9

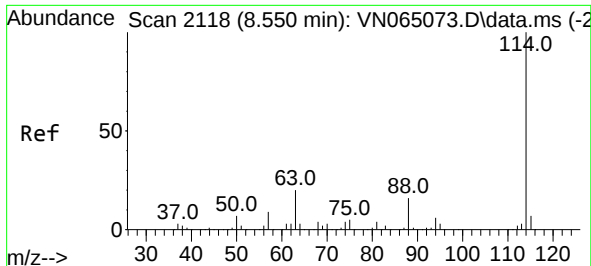


#33  
1,2-Dichloroethane-d4  
Concen: 55.82 ug/l  
RT: 7.987 min Scan# 1943  
Delta R.T. 0.003 min  
Lab File: VN065077.D  
Acq: 11 Dec 2020 18:29



Tgt Ion: 65 Resp: 160973  
Ion Ratio Lower Upper  
65 100  
67 53.1 0.0 108.2

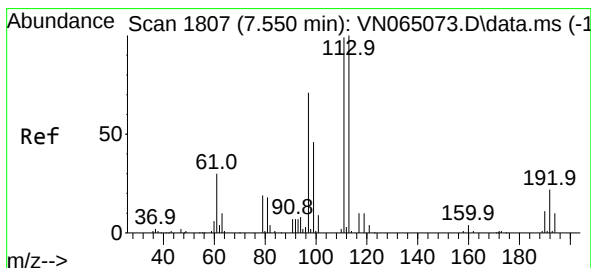
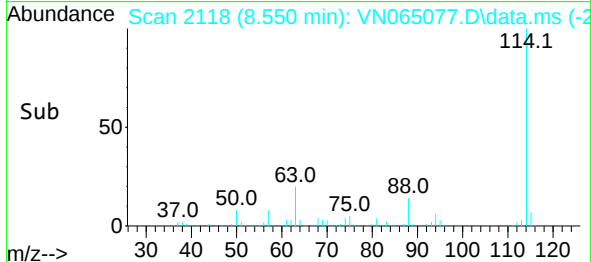
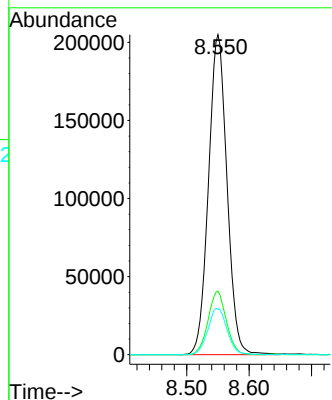
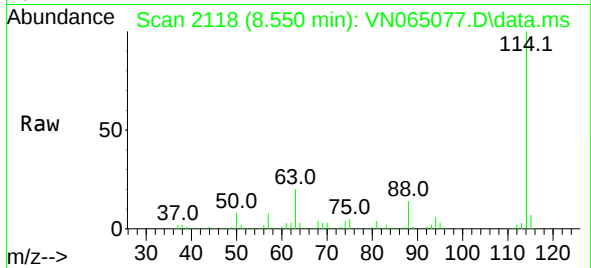




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.550 min Scan# 2118  
Delta R.T. 0.000 min  
Lab File: VN065077.D  
Acq: 11 Dec 2020 18:29

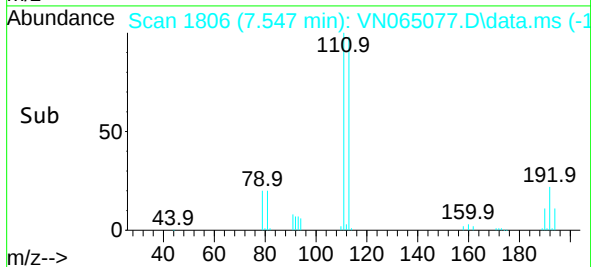
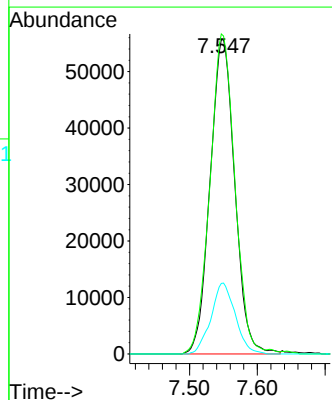
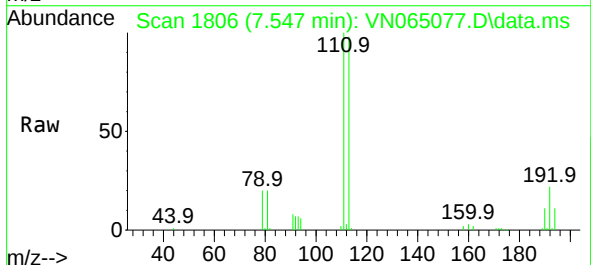
Instrument :  
MSVOA\_N  
ClientSampled :

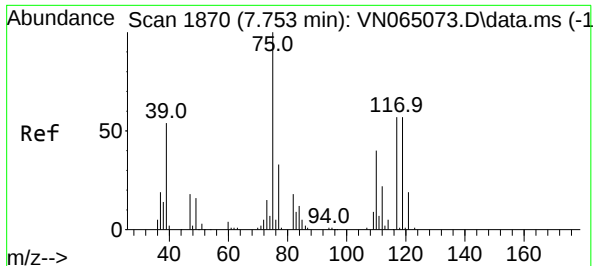
Tgt Ion:114 Resp: 421984  
Ion Ratio Lower Upper  
114 100  
63 19.9 0.0 38.6  
88 14.3 0.0 32.6



#35  
Dibromofluoromethane  
Concen: 49.36 ug/l  
RT: 7.547 min Scan# 1806  
Delta R.T. -0.003 min  
Lab File: VN065077.D  
Acq: 11 Dec 2020 18:29

Tgt Ion:113 Resp: 140965  
Ion Ratio Lower Upper  
113 100  
111 102.0 81.6 122.4  
192 22.2 16.2 24.2

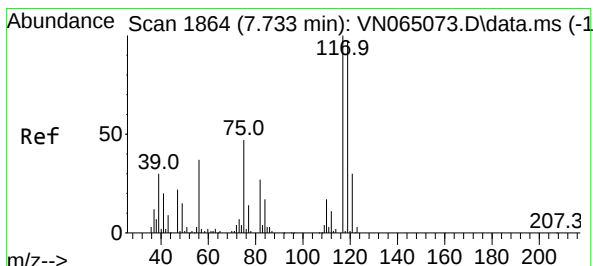
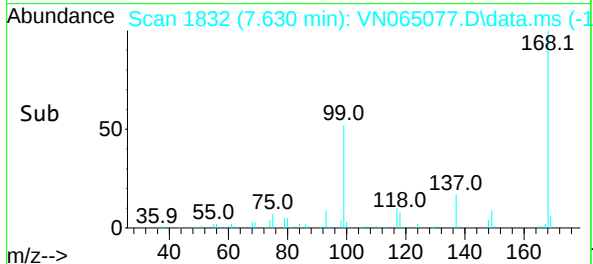
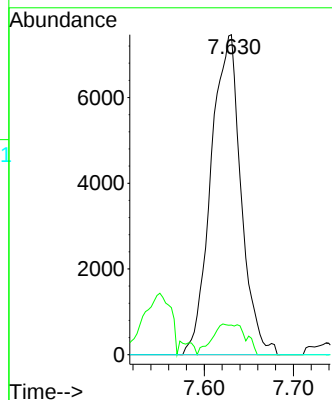
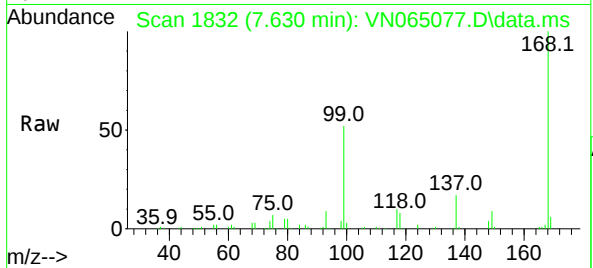




#36  
1,1-Dichloropropene  
Concen: 4.54 ug/l  
RT: 7.630 min Scan# 1832  
Delta R.T. -0.123 min  
Lab File: VN065077.D  
Acq: 11 Dec 2020 18:29

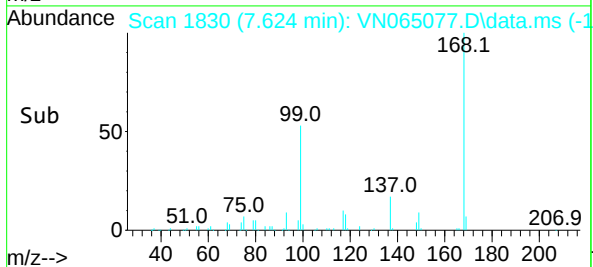
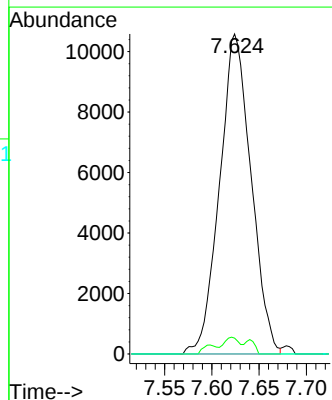
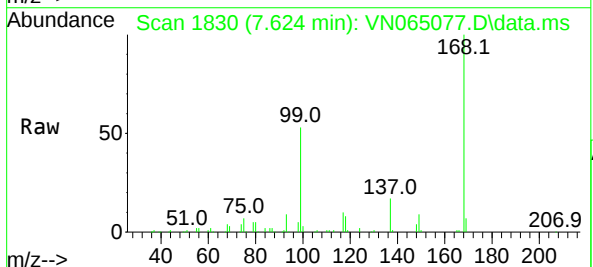
Instrument :  
MSVOA\_N  
ClientSampleId :

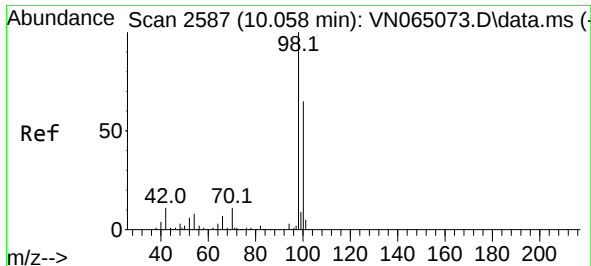
Tgt Ion: 75 Resp: 17465  
Ion Ratio Lower Upper  
75 100  
110 10.5 17.8 53.3#  
77 0.0 25.0 37.4#



#38  
Carbon Tetrachloride  
Concen: 5.65 ug/l  
RT: 7.624 min Scan# 1830  
Delta R.T. -0.109 min  
Lab File: VN065077.D  
Acq: 11 Dec 2020 18:29

Tgt Ion: 117 Resp: 24519  
Ion Ratio Lower Upper  
117 100  
119 4.9 76.7 115.1#  
121 0.0 25.4 38.2#

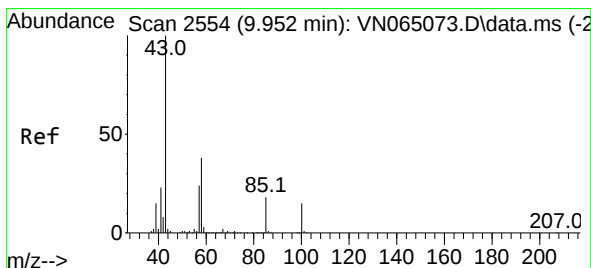
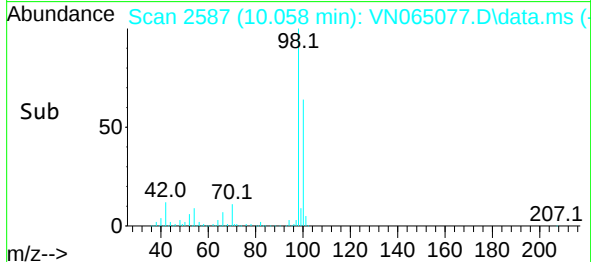
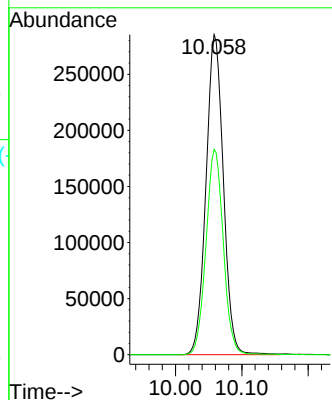
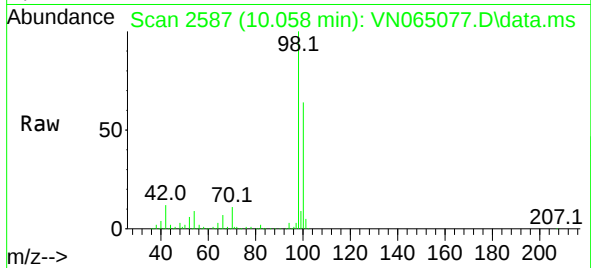




#50  
Toluene-d8  
Concen: 50.11 ug/l  
RT: 10.058 min Scan# 2587  
Delta R.T. 0.000 min  
Lab File: VN065077.D  
Acq: 11 Dec 2020 18:29

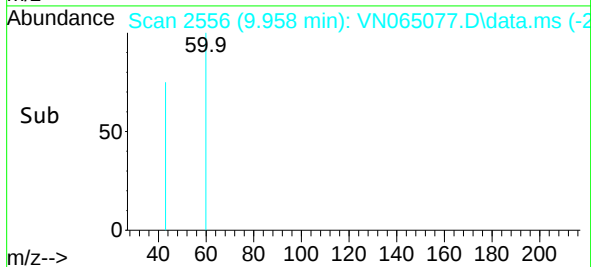
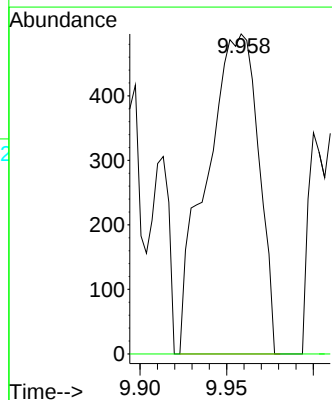
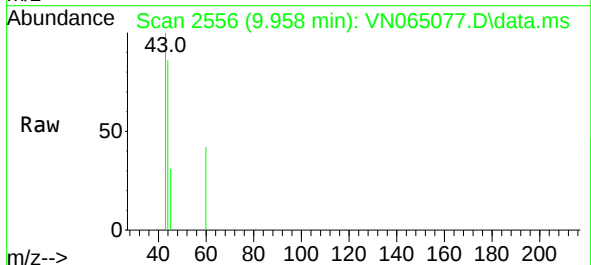
Instrument :  
MSVOA\_N  
ClientSampled :

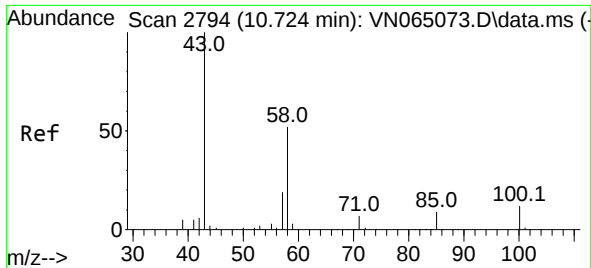
Tgt Ion: 98 Resp: 519325  
Ion Ratio Lower Upper  
98 100  
100 64.0 51.7 77.5



#51  
4-Methyl-2-Pentanone  
Concen: 0.31 ug/l  
RT: 9.958 min Scan# 2556  
Delta R.T. 0.006 min  
Lab File: VN065077.D  
Acq: 11 Dec 2020 18:29

Tgt Ion: 43 Resp: 1033  
Ion Ratio Lower Upper  
43 100  
58 0.0 32.4 48.6#

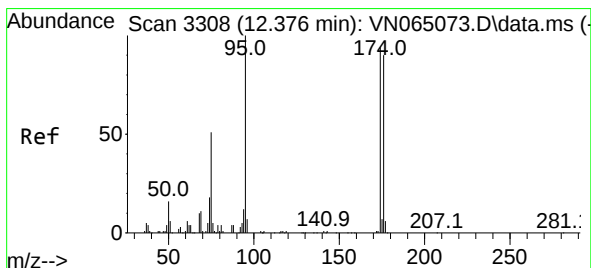
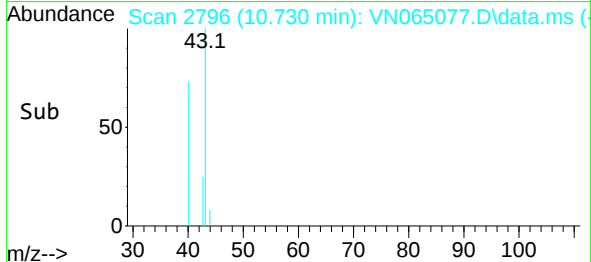
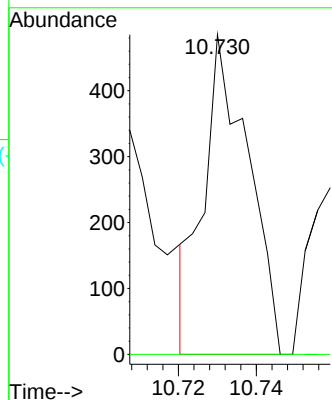
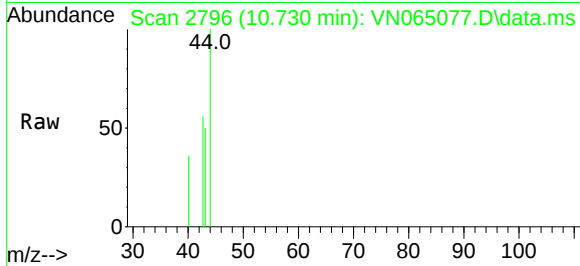




#59  
2-Hexanone  
Concen: 8.73 ug/l  
RT: 10.730 min Scan# 2796  
Delta R.T. 0.006 min  
Lab File: VN065077.D  
Acq: 11 Dec 2020 18:29

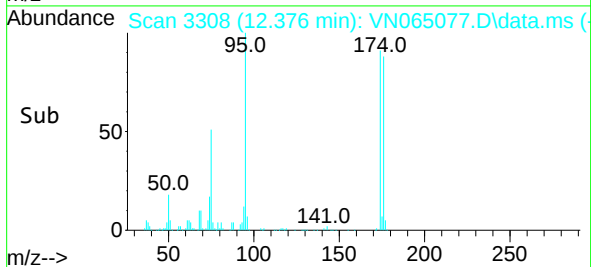
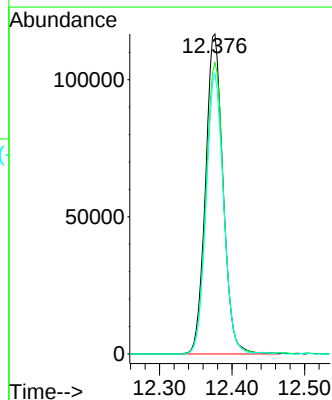
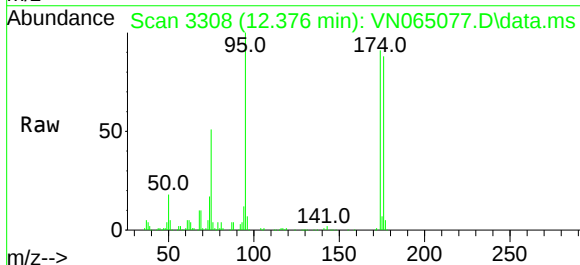
Instrument :  
MSVOA\_N  
ClientSampled :

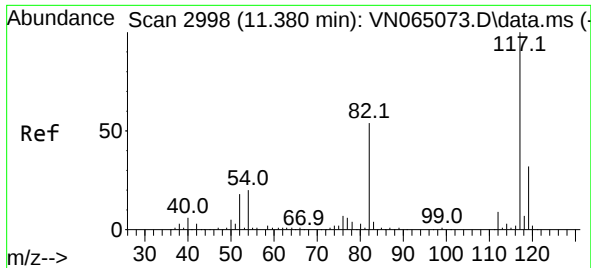
Tgt Ion: 43 Resp: 386  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.3 84.9#



#62  
4-Bromofluorobenzene  
Concen: 53.89 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.000 min  
Lab File: VN065077.D  
Acq: 11 Dec 2020 18:29

Tgt Ion: 95 Resp: 196119  
Ion Ratio Lower Upper  
95 100  
174 91.8 0.0 160.4  
176 87.3 0.0 158.4

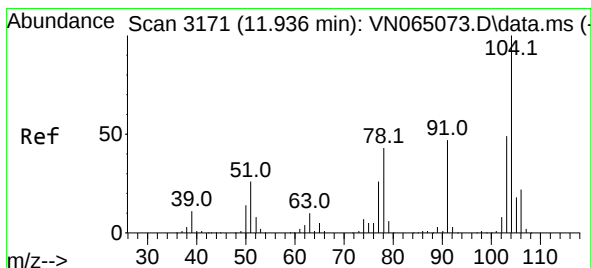
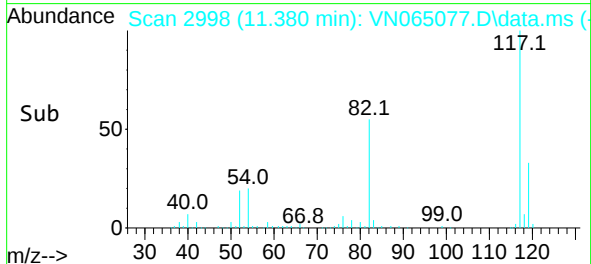
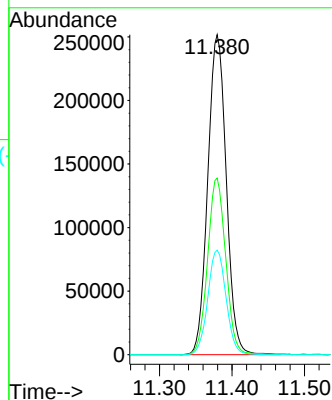
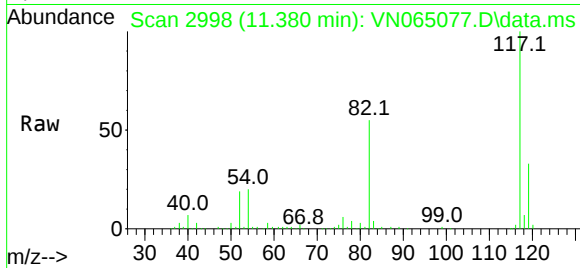




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.380 min Scan# 2998  
Delta R.T. -0.000 min  
Lab File: VN065077.D  
Acq: 11 Dec 2020 18:29

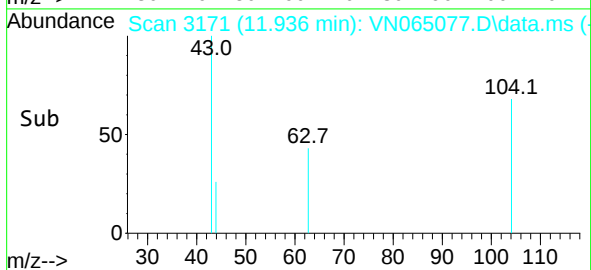
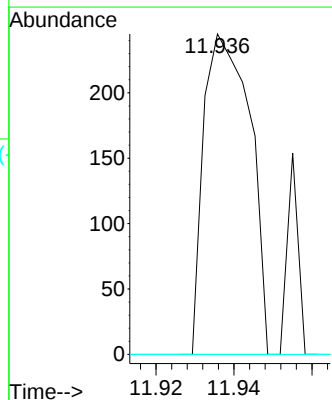
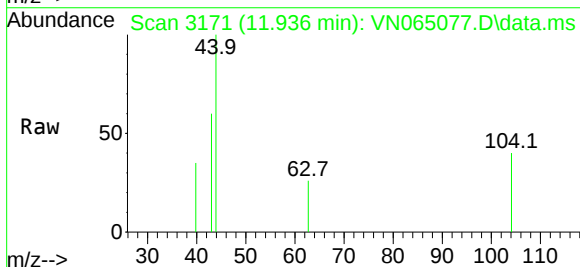
Instrument :  
MSVOA\_N  
ClientSampleId :

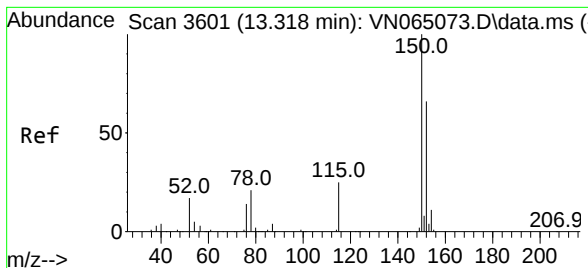
Tgt Ion:117 Resp: 446158  
Ion Ratio Lower Upper  
117 100  
82 55.2 44.2 66.2  
119 32.6 25.8 38.6



#70  
Styrene  
Concen: 1.87 ug/l  
RT: 11.936 min Scan# 3171  
Delta R.T. -0.000 min  
Lab File: VN065077.D  
Acq: 11 Dec 2020 18:29

Tgt Ion:104 Resp: 202  
Ion Ratio Lower Upper  
104 100  
78 0.0 39.0 58.6#  
103 0.0 44.3 66.5#

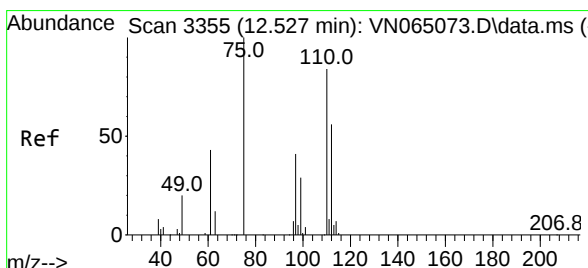
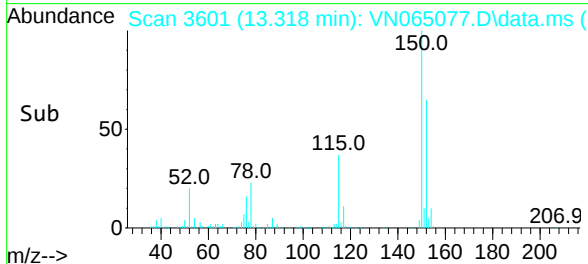
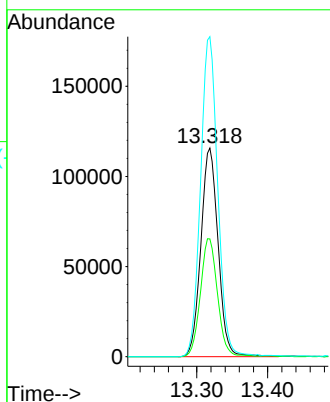
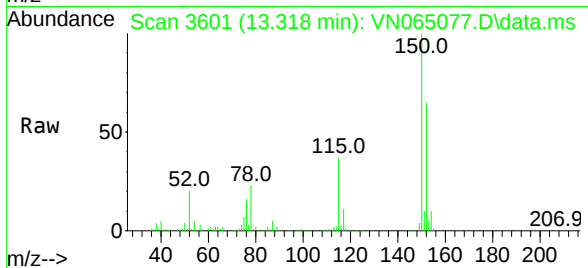




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 13.318 min Scan# 3601  
 Delta R.T. 0.000 min  
 Lab File: VN065077.D  
 Acq: 11 Dec 2020 18:29

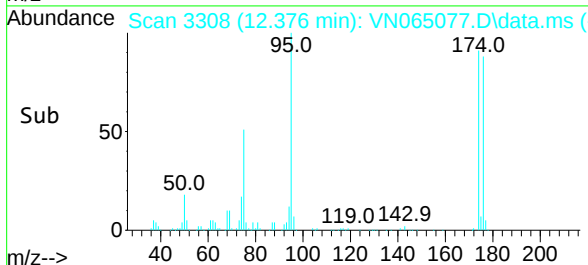
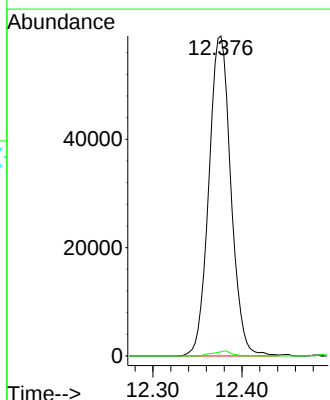
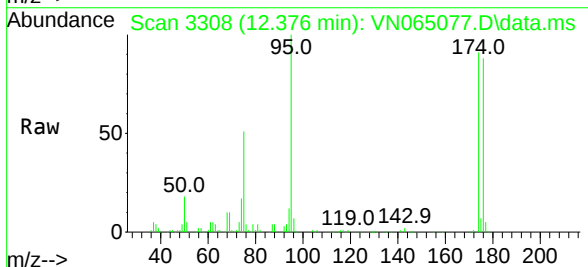
Instrument :  
 MSVOA\_N  
 ClientSampled :

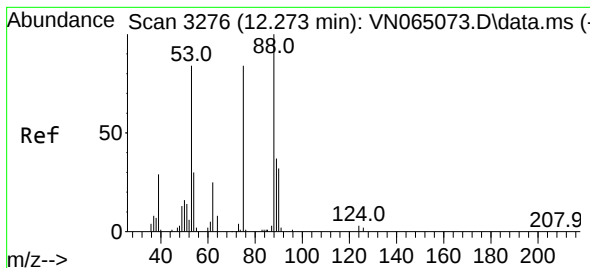
Tgt Ion:152 Resp: 195409  
 Ion Ratio Lower Upper  
 152 100  
 115 56.1 29.7 89.1  
 150 152.7 0.0 350.6



#76  
 1,2,3-Trichloropropane  
 Concen: 28.10 ug/l  
 RT: 12.376 min Scan# 3308  
 Delta R.T. -0.151 min  
 Lab File: VN065077.D  
 Acq: 11 Dec 2020 18:29

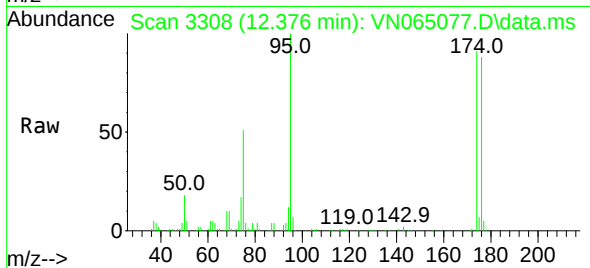
Tgt Ion: 75 Resp: 101574  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 0.0 0.0#



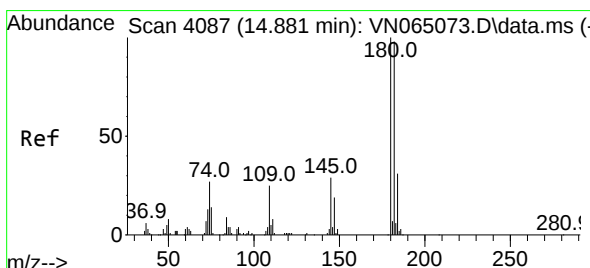
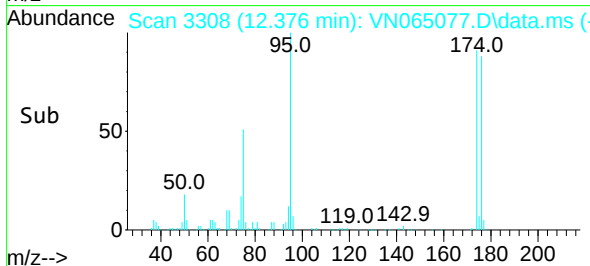
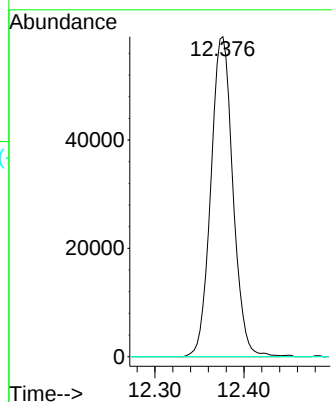


#81  
trans-1,4-Dichloro-2-butene  
Concen: 81.10 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.103 min  
Lab File: VN065077.D  
Acq: 11 Dec 2020 18:29

Instrument :  
MSVOA\_N  
ClientSampled :

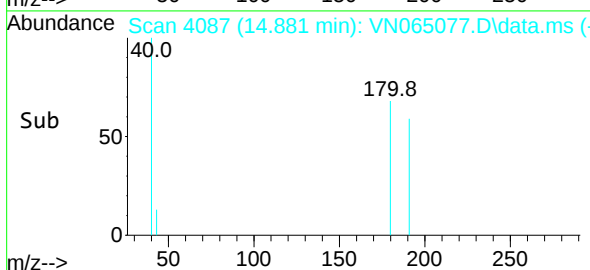
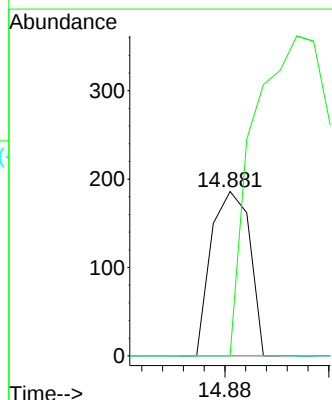
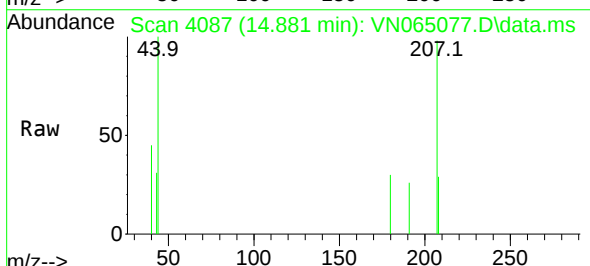


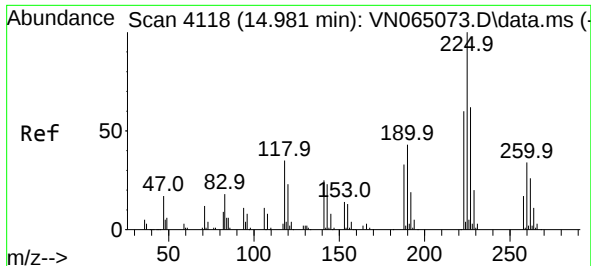
Tgt Ion: 75 Resp: 101574  
Ion Ratio Lower Upper  
75 100  
53 0.0 67.0 100.4#  
89 0.0 39.6 59.4#



#93  
1,2,4-Trichlorobenzene  
Concen: 4.15 ug/l  
RT: 14.881 min Scan# 4087  
Delta R.T. -0.000 min  
Lab File: VN065077.D  
Acq: 11 Dec 2020 18:29

Tgt Ion: 180 Resp: 96  
Ion Ratio Lower Upper  
180 100  
182 372.9 47.6 142.9#  
145 0.0 15.3 45.8#

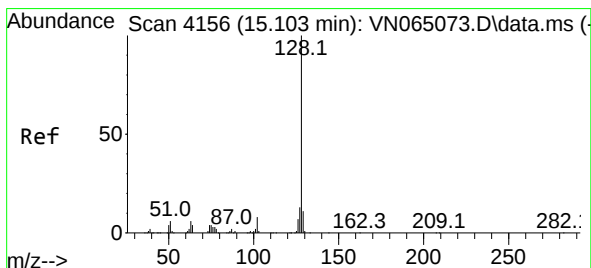
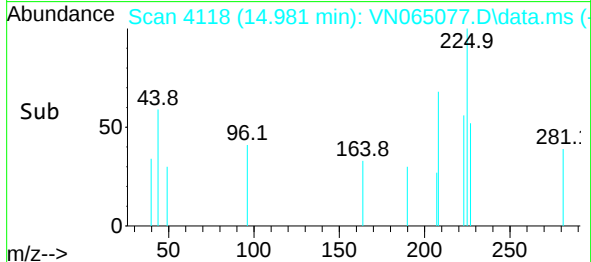
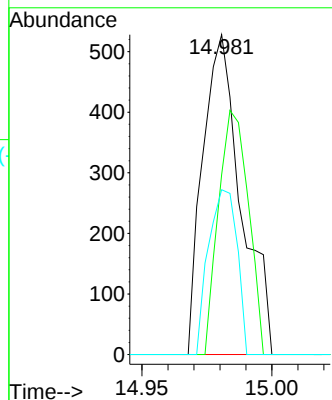
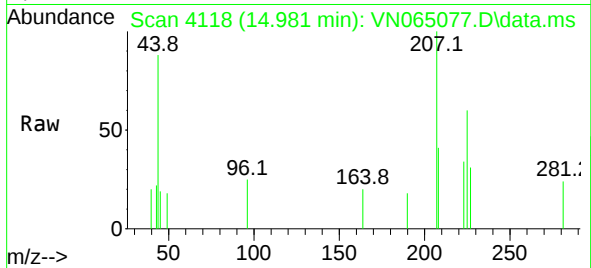




#94  
Hexachlorobutadiene  
Concen: 0.27 ug/l  
RT: 14.981 min Scan# 4118  
Delta R.T. -0.000 min  
Lab File: VN065077.D  
Acq: 11 Dec 2020 18:29

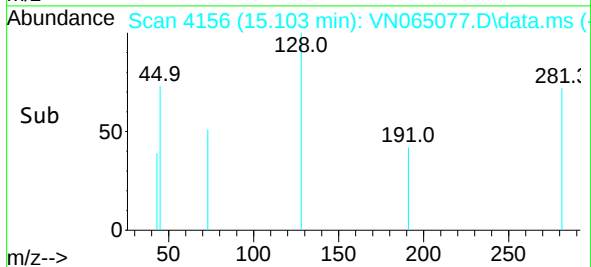
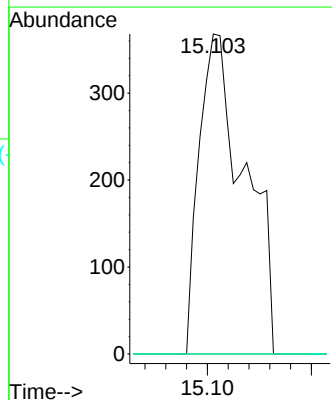
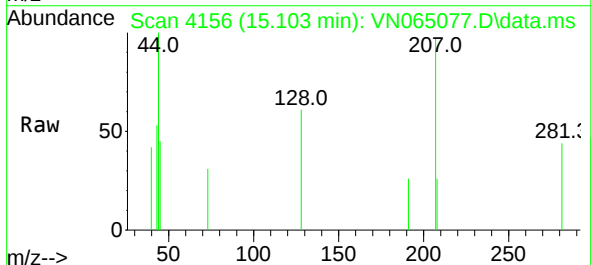
Instrument :  
MSVOA\_N  
ClientSampleId :

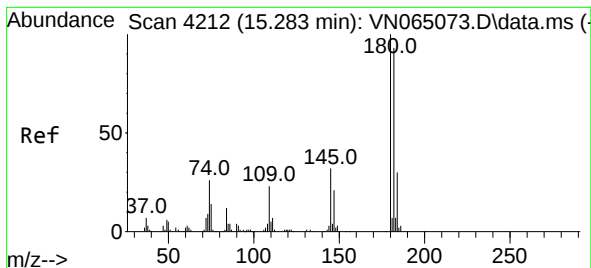
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 540   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 59.6  | 31.0  | 93.0  |
| 227      | 38.5  | 32.0  | 96.0  |



#95  
Naphthalene  
Concen: 4.80 ug/l  
RT: 15.103 min Scan# 4156  
Delta R.T. -0.000 min  
Lab File: VN065077.D  
Acq: 11 Dec 2020 18:29

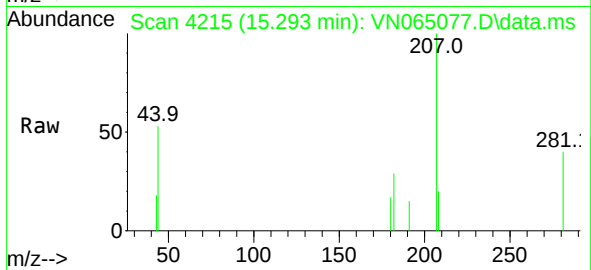
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 562   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.3  | 15.5# |
| 129      | 0.0   | 8.7   | 13.1# |





#96  
 1,2,3-Trichlorobenzene  
 Concen: 4.61 ug/l  
 RT: 15.293 min Scan# 4215  
 Delta R.T. 0.010 min  
 Lab File: VN065077.D  
 Acq: 11 Dec 2020 18:29

Instrument :  
 MSVOA\_N  
 ClientSampleId :



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 92     |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 485.9 | 48.1  | 144.4# |
| 145      | 67.4  | 16.4  | 49.1#  |

