

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121420\  
 Data File : VN065127.D  
 Acq On : 15 Dec 2020 2:34  
 Operator : JC/MD  
 Sample : L5085-08  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 15 06:44:54 2020  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121420W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 15 05:41:47 2020  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| -----                      |        |      |          |       |       |          |
| Internal Standards         |        |      |          |       |       |          |
| 1) Pentafluorobenzene      | 7.627  | 168  | 209404   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.550  | 114  | 363951   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.380 | 117  | 360500   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.319 | 152  | 142069   | 50.00 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 7.988  | 65    | 165243   | 68.64    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 61 - 141 | Recovery | =    | 137.28% |
| 35) Dibromofluoromethane    | 7.550  | 113   | 134901   | 53.32    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 69 - 133 | Recovery | =    | 106.64% |
| 50) Toluene-d8              | 10.058 | 98    | 467992   | 52.31    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 65 - 126 | Recovery | =    | 104.62% |
| 62) 4-Bromofluorobenzene    | 12.376 | 95    | 154781   | 50.24    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 58 - 135 | Recovery | =    | 100.48% |

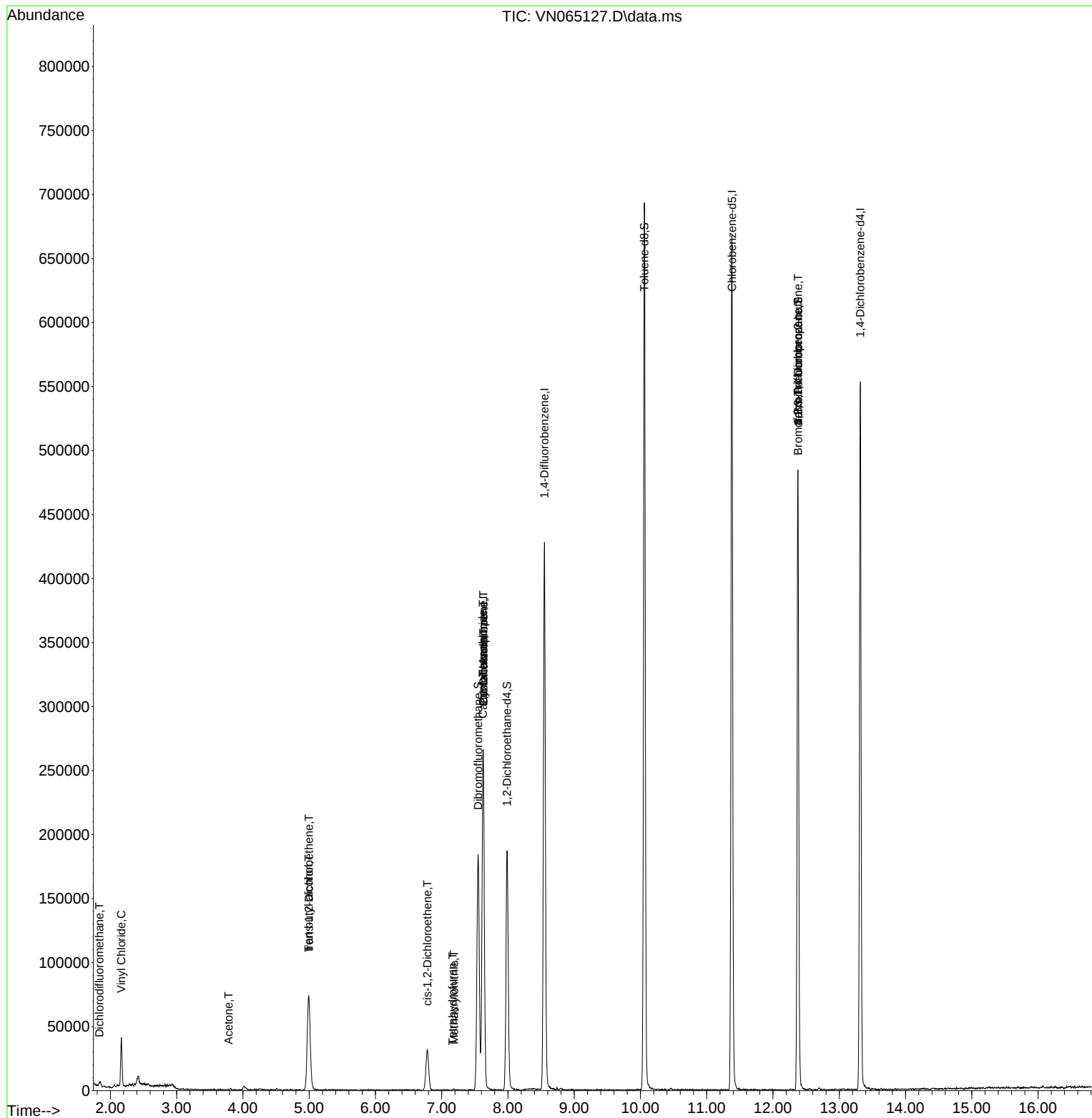
| Target Compounds              |        |     |       |       |      | Qvalue |
|-------------------------------|--------|-----|-------|-------|------|--------|
| 2) Dichlorodifluoromethane    | 1.833  | 85  | 2116  | 1.02  | ug/l | 88     |
| 3) Chloromethane              | 2.033  | 50  | 169   | Below | Cal  | # 41   |
| 4) Vinyl Chloride             | 2.165  | 62  | 31051 | 15.98 | ug/l | 99     |
| 5) Bromomethane               | 2.547  | 94  | 63    | Below | Cal  | # 3    |
| 11) Tert butyl alcohol        | 4.991  | 59  | 2446  | 9.54  | ug/l | # 73   |
| 16) Acetone                   | 3.782  | 43  | 655   | 0.73  | ug/l | # 43   |
| 20) Methylene Chloride        | 4.509  | 84  | 524   | Below | Cal  | # 43   |
| 21) trans-1,2-Dichloroethene  | 4.994  | 96  | 47483 | 23.24 | ug/l | 93     |
| 27) cis-1,2-Dichloroethene    | 6.785  | 96  | 20035 | 8.78  | ug/l | 95     |
| 29) Tetrahydrofuran           | 7.168  | 42  | 529   | 0.75  | ug/l | # 47   |
| 31) Cyclohexane               | 7.627  | 56  | 5249  | 1.61  | ug/l | # 43   |
| 36) 1,1-Dichloropropene       | 7.627  | 75  | 16425 | 4.73  | ug/l | # 51   |
| 38) Carbon Tetrachloride      | 7.621  | 117 | 22336 | 5.57  | ug/l | # 16   |
| 41) Methacrylonitrile         | 7.187  | 41  | 329   | 0.23  | ug/l | # 25   |
| 71) Bromoform                 | 12.380 | 173 | 563   | 0.24  | ug/l | # 1    |
| 76) 1,2,3-Trichloropropane    | 12.376 | 75  | 89522 | 35.12 | ug/l | # 100  |
| 81) trans-1,4-Dichloro-2-b... | 12.376 | 75  | 89522 | 97.71 | ug/l | # 15   |

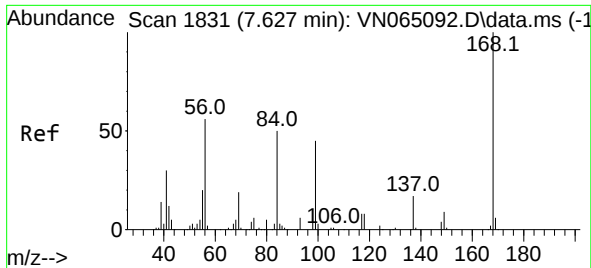
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121420\  
Data File : VN065127.D  
Acq On : 15 Dec 2020 2:34  
Operator : JC/MD  
Sample : L5085-08  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Dec 15 06:44:54 2020  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121420W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 15 05:41:47 2020  
Response via : Initial Calibration

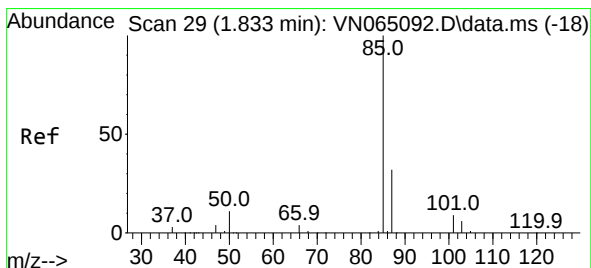
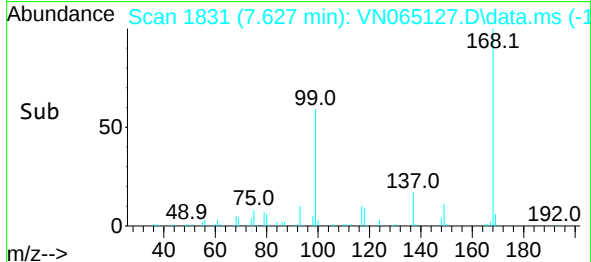
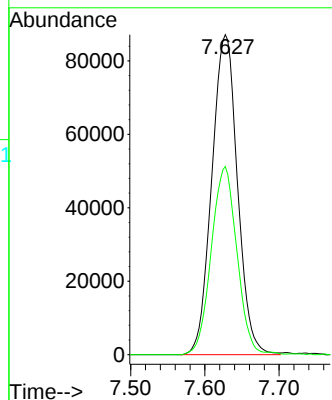
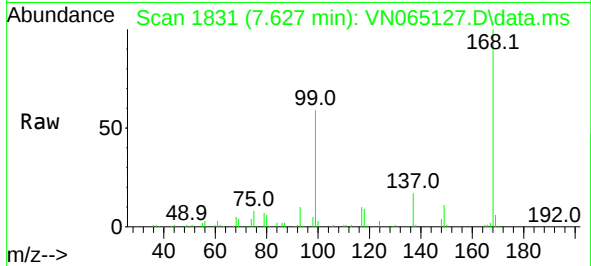




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.627 min Scan# 1831  
Delta R.T. 0.000 min  
Lab File: VN065127.D  
Acq: 15 Dec 2020 2:34

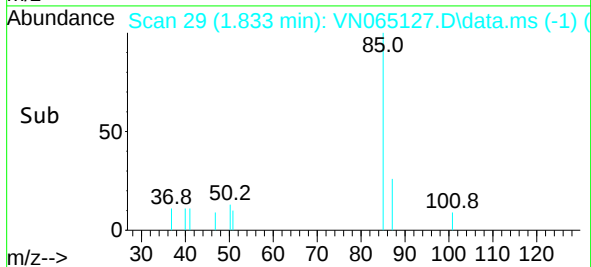
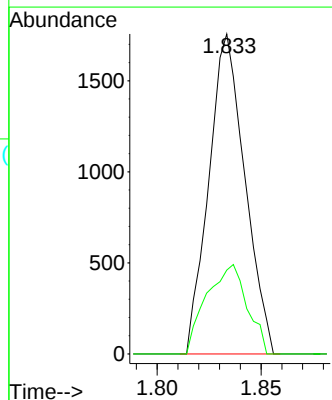
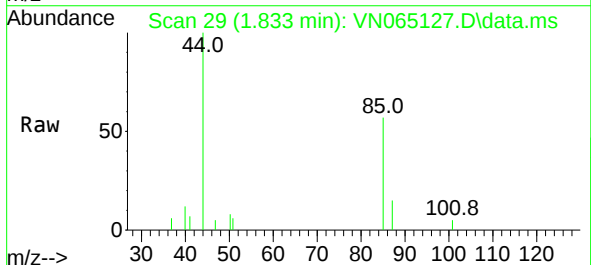
Instrument :  
MSVOA\_N  
ClientSampled :

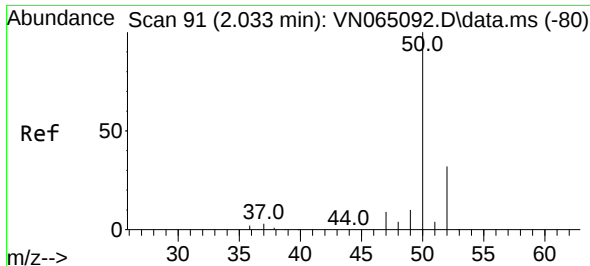
Tgt Ion:168 Resp: 209404  
Ion Ratio Lower Upper  
168 100  
99 58.8 43.0 64.4



#2  
Dichlorodifluoromethane  
Concen: 1.02 ug/l  
RT: 1.833 min Scan# 29  
Delta R.T. 0.000 min  
Lab File: VN065127.D  
Acq: 15 Dec 2020 2:34

Tgt Ion: 85 Resp: 2116  
Ion Ratio Lower Upper  
85 100  
87 26.2 16.4 49.4

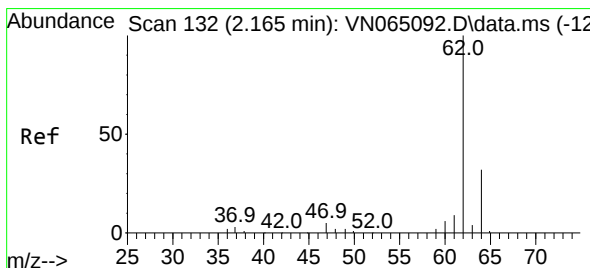
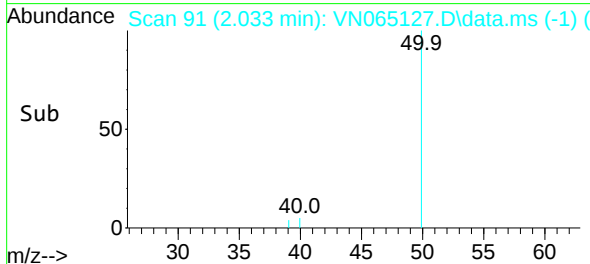
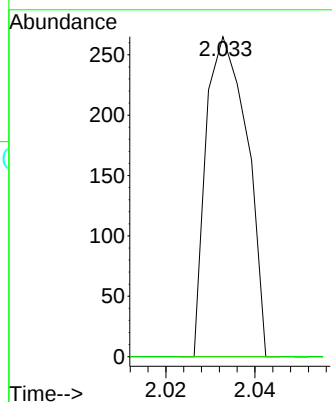
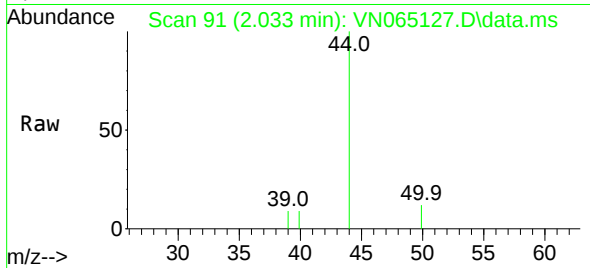




#3  
Chloromethane  
Concen: Below Cal  
RT: 2.033 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VN065127.D  
Acq: 15 Dec 2020 2:34

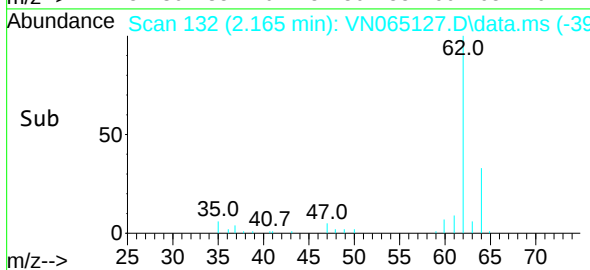
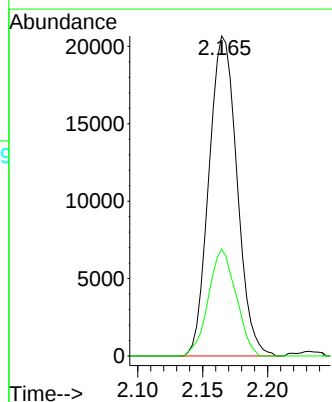
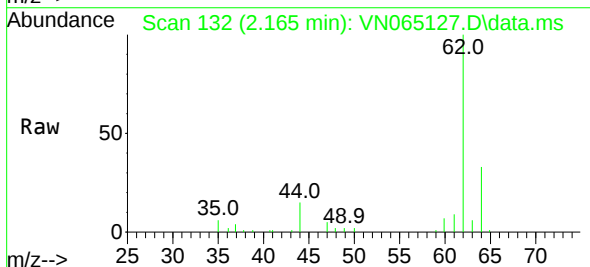
Instrument :  
MSVOA\_N  
ClientSampled :

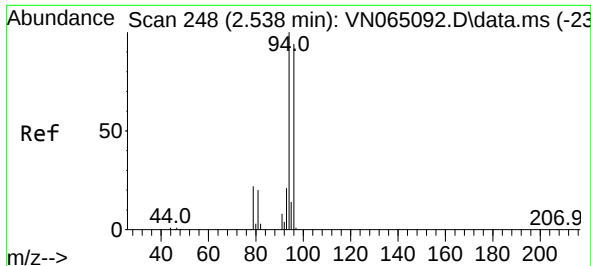
Tgt Ion: 50 Resp: 169  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.6 39.8#



#4  
Vinyl Chloride  
Concen: 15.98 ug/l  
RT: 2.165 min Scan# 132  
Delta R.T. -0.000 min  
Lab File: VN065127.D  
Acq: 15 Dec 2020 2:34

Tgt Ion: 62 Resp: 31051  
Ion Ratio Lower Upper  
62 100  
64 33.4 26.5 39.7

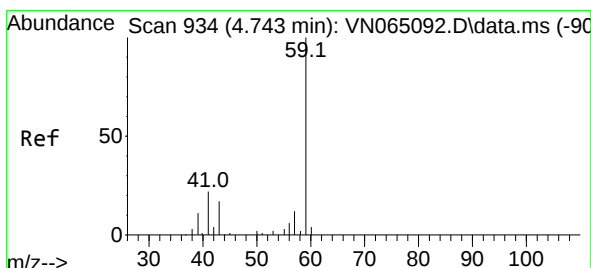
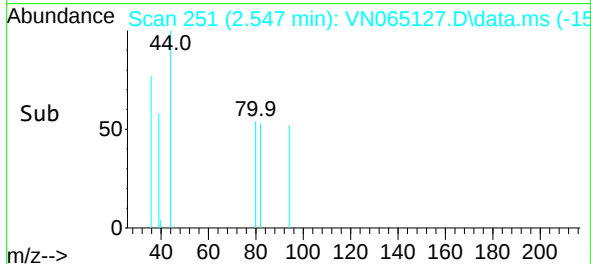
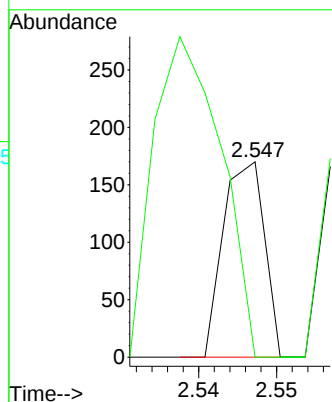
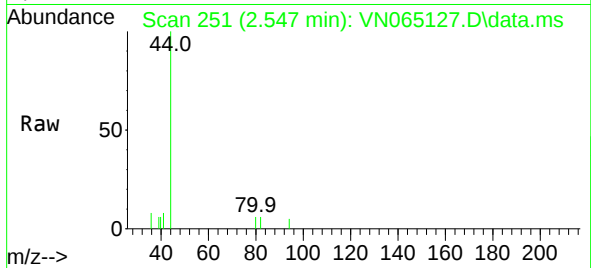




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.547 min Scan# 251  
Delta R.T. 0.009 min  
Lab File: VN065127.D  
Acq: 15 Dec 2020 2:34

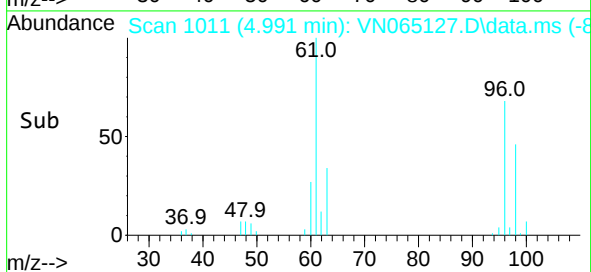
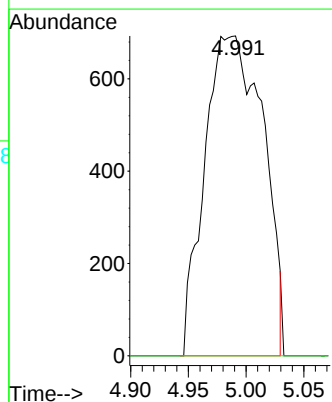
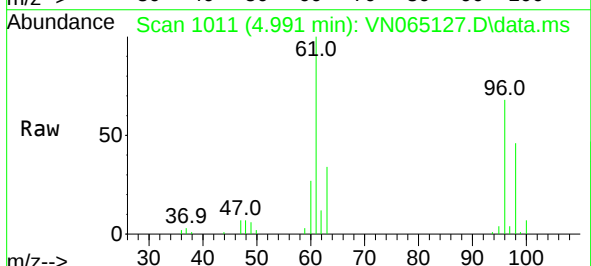
Instrument :  
MSVOA\_N  
ClientSampled :

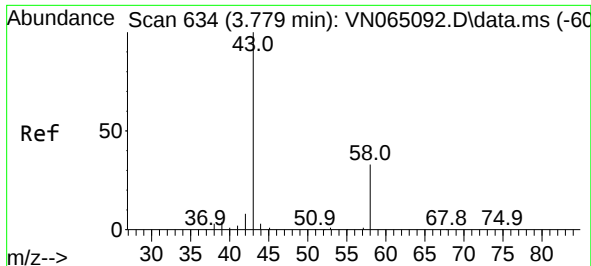
Tgt Ion: 94 Resp: 63  
Ion Ratio Lower Upper  
94 100  
96 0.0 75.4 113.0#



#11  
Tert butyl alcohol  
Concen: 9.54 ug/l  
RT: 4.991 min Scan# 1011  
Delta R.T. 0.248 min  
Lab File: VN065127.D  
Acq: 15 Dec 2020 2:34

Tgt Ion: 59 Resp: 2446  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.9 11.9#

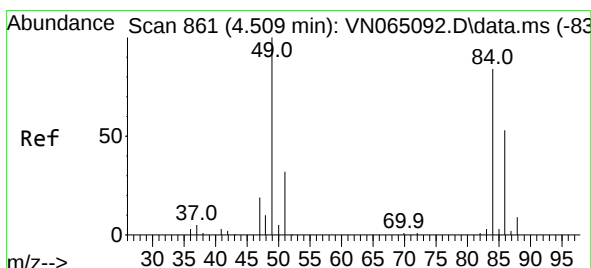
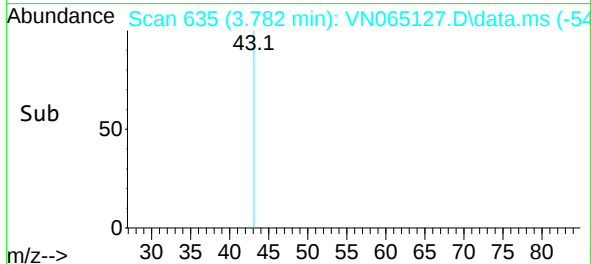
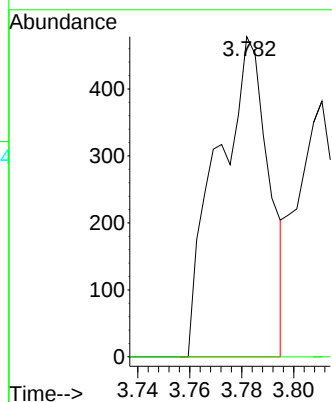
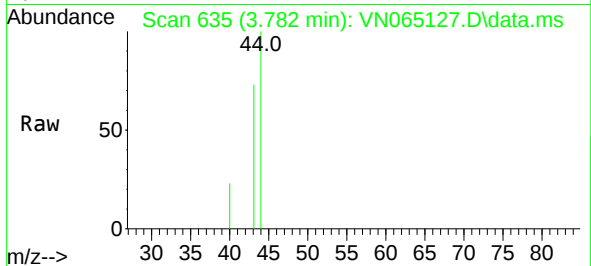




#16  
Acetone  
Concen: 0.73 ug/l  
RT: 3.782 min Scan# 635  
Delta R.T. 0.003 min  
Lab File: VN065127.D  
Acq: 15 Dec 2020 2:34

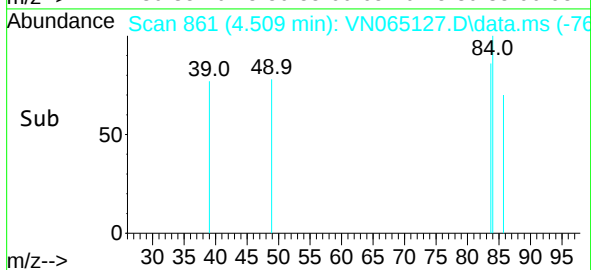
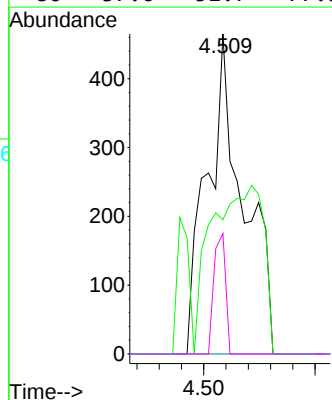
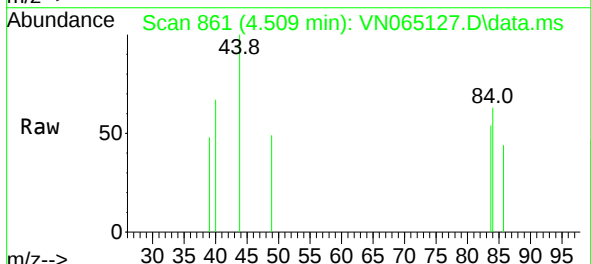
Instrument :  
MSVOA\_N  
ClientSampled :

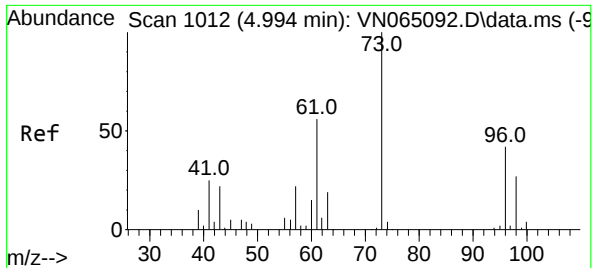
Tgt Ion: 43 Resp: 655  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.7 38.5#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.509 min Scan# 861  
Delta R.T. -0.000 min  
Lab File: VN065127.D  
Acq: 15 Dec 2020 2:34

Tgt Ion: 84 Resp: 524  
Ion Ratio Lower Upper  
84 100  
49 41.9 93.4 140.0#  
51 0.0 28.2 42.4#  
86 37.6 51.7 77.5#

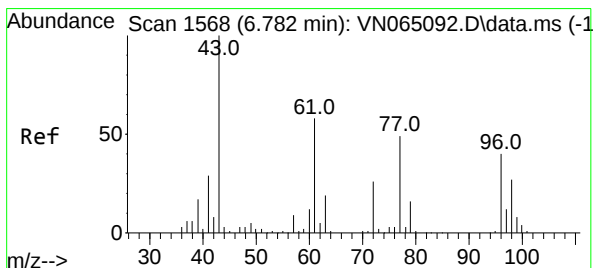
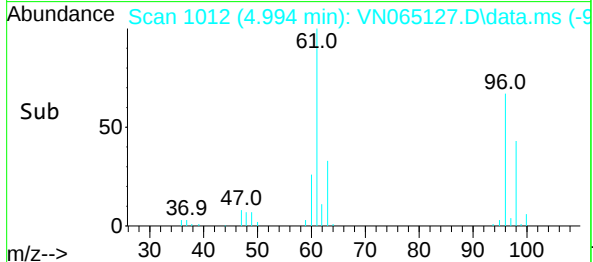
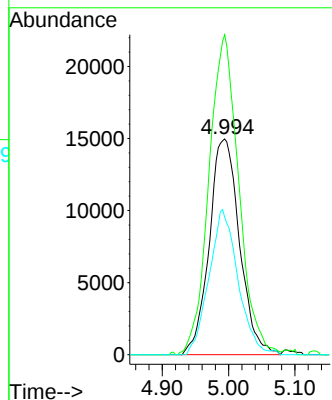
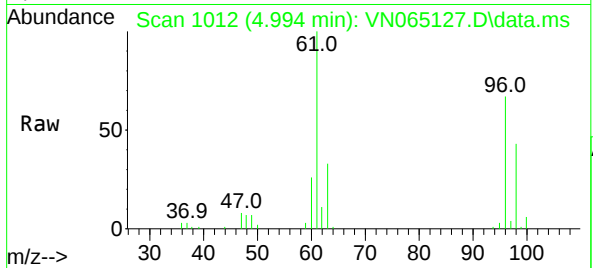




#21  
trans-1,2-Dichloroethene  
Concen: 23.24 ug/l  
RT: 4.994 min Scan# 1012  
Delta R.T. 0.000 min  
Lab File: VN065127.D  
Acq: 15 Dec 2020 2:34

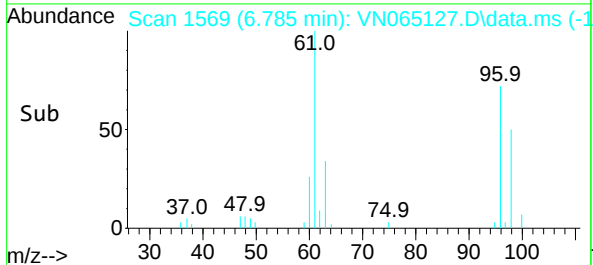
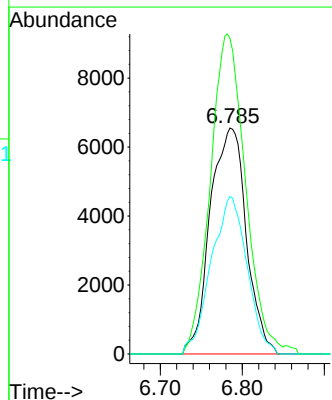
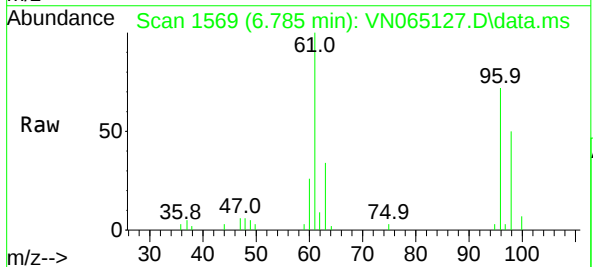
Instrument :  
MSVOA\_N  
ClientSampled :

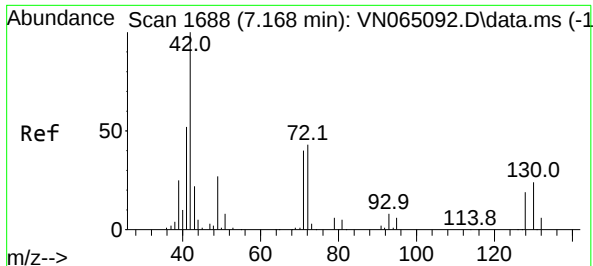
Tgt Ion: 96 Resp: 47483  
Ion Ratio Lower Upper  
96 100  
61 147.3 108.4 162.6  
98 63.7 51.3 76.9



#27  
cis-1,2-Dichloroethene  
Concen: 8.78 ug/l  
RT: 6.785 min Scan# 1569  
Delta R.T. 0.003 min  
Lab File: VN065127.D  
Acq: 15 Dec 2020 2:34

Tgt Ion: 96 Resp: 20035  
Ion Ratio Lower Upper  
96 100  
61 137.4 0.0 285.8  
98 69.2 0.0 130.6





#29

Tetrahydrofuran

Concen: 0.75 ug/l

RT: 7.168 min Scan# 1688

Delta R.T. -0.000 min

Lab File: VN065127.D

Acq: 15 Dec 2020 2:34

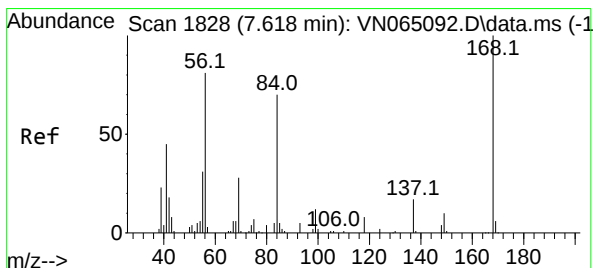
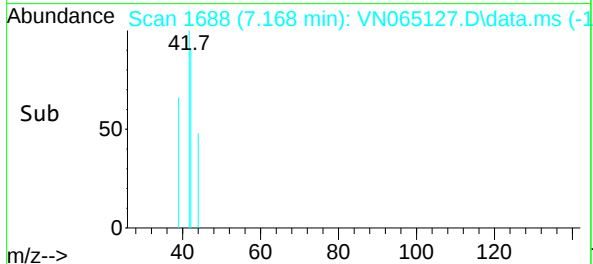
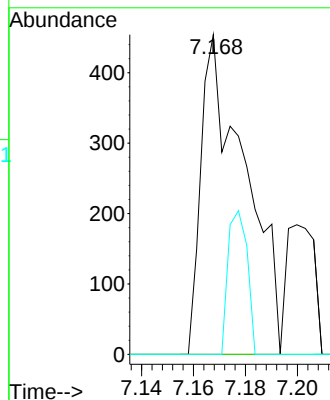
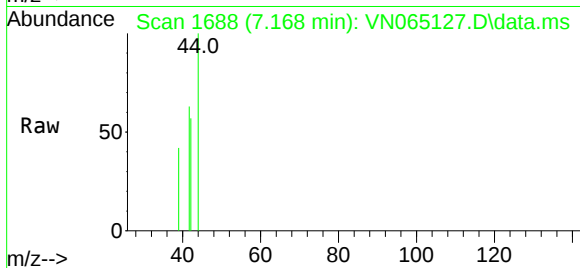
Tgt Ion: 42 Resp: 529

Ion Ratio Lower Upper

42 100

72 0.0 36.6 54.8#

71 19.8 33.6 50.4#



#31

Cyclohexane

Concen: 1.61 ug/l

RT: 7.627 min Scan# 1831

Delta R.T. 0.009 min

Lab File: VN065127.D

Acq: 15 Dec 2020 2:34

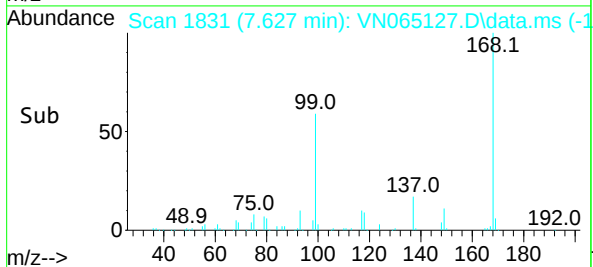
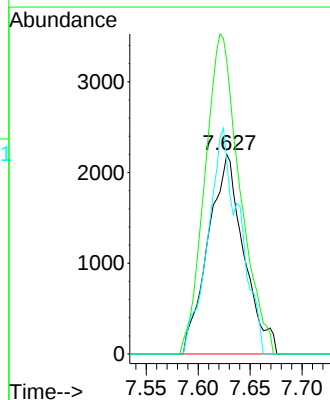
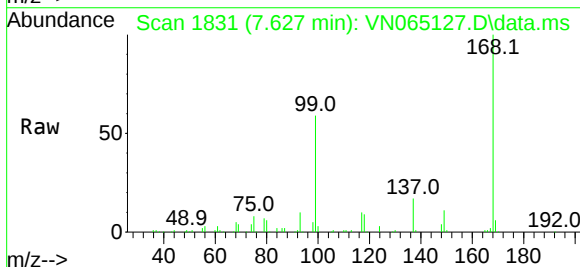
Tgt Ion: 56 Resp: 5249

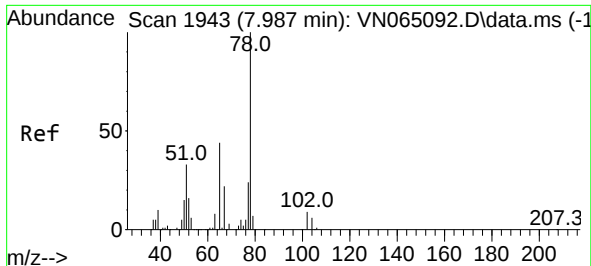
Ion Ratio Lower Upper

56 100

69 147.1 27.5 41.3#

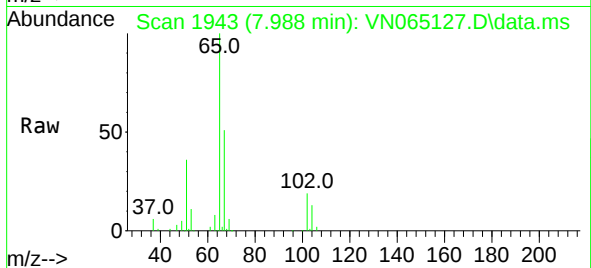
84 97.0 73.9 110.9



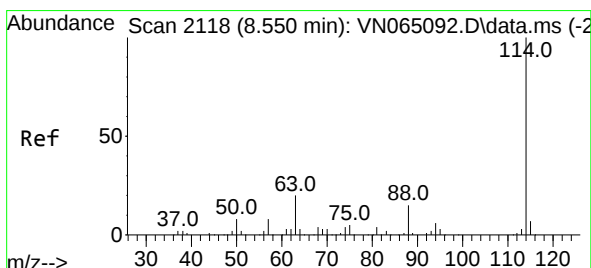
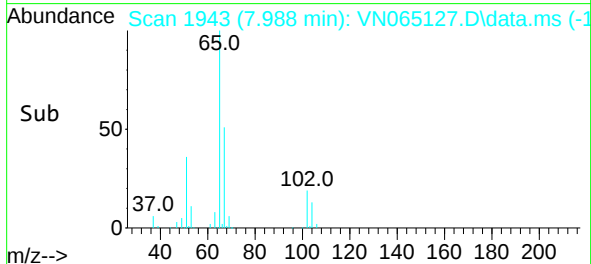
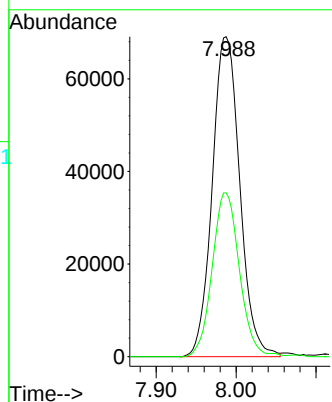


#33  
 1,2-Dichloroethane-d4  
 Concen: 68.64 ug/l  
 RT: 7.988 min Scan# 1943  
 Delta R.T. 0.001 min  
 Lab File: VN065127.D  
 Acq: 15 Dec 2020 2:34

Instrument :  
 MSVOA\_N  
 ClientSampled :

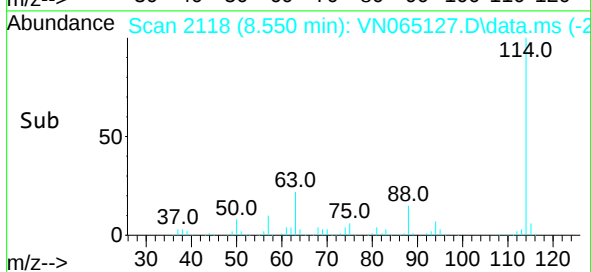
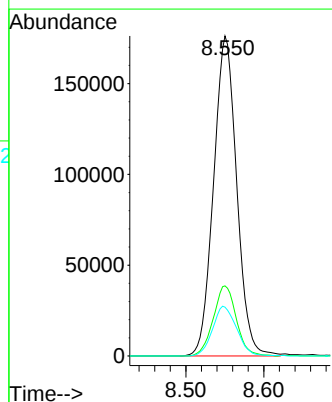
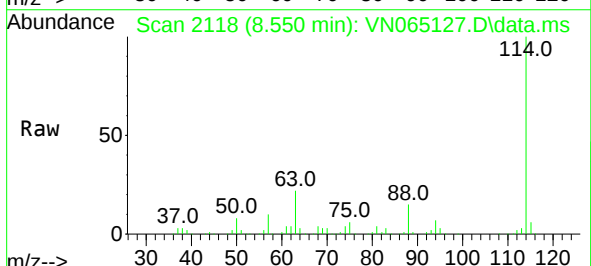


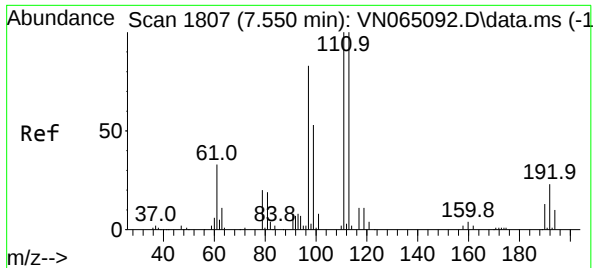
Tgt Ion: 65 Resp: 165243  
 Ion Ratio Lower Upper  
 65 100  
 67 50.3 0.0 108.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.550 min Scan# 2118  
 Delta R.T. 0.000 min  
 Lab File: VN065127.D  
 Acq: 15 Dec 2020 2:34

Tgt Ion: 114 Resp: 363951  
 Ion Ratio Lower Upper  
 114 100  
 63 21.9 0.0 38.6  
 88 15.2 0.0 32.6





#35

Dibromofluoromethane

Concen: 53.32 ug/l

RT: 7.550 min Scan# 1807

Delta R.T. 0.000 min

Lab File: VN065127.D

Acq: 15 Dec 2020 2:34

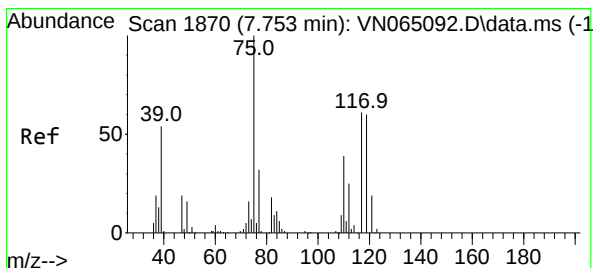
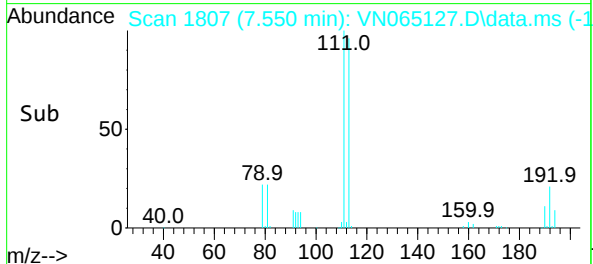
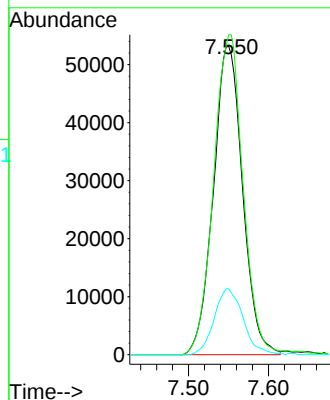
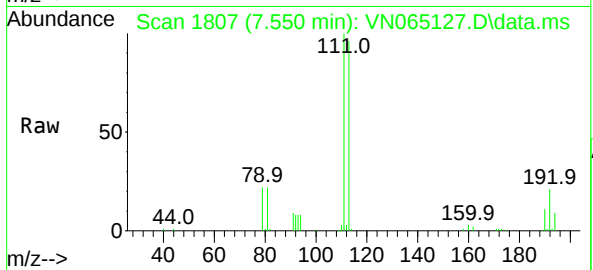
Tgt Ion:113 Resp: 134901

Ion Ratio Lower Upper

113 100

111 104.2 81.6 122.4

192 21.2 16.2 24.2



#36

1,1-Dichloropropene

Concen: 4.73 ug/l

RT: 7.627 min Scan# 1831

Delta R.T. -0.126 min

Lab File: VN065127.D

Acq: 15 Dec 2020 2:34

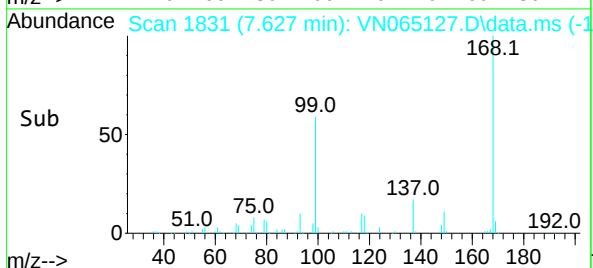
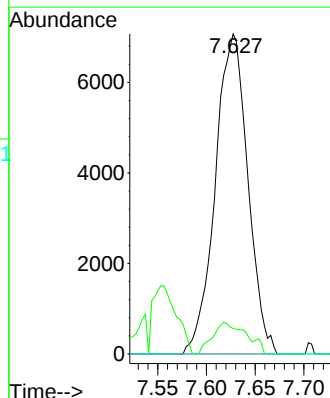
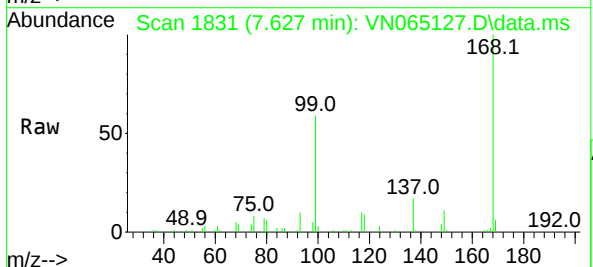
Tgt Ion: 75 Resp: 16425

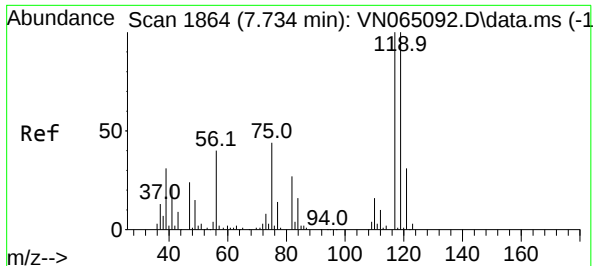
Ion Ratio Lower Upper

75 100

110 10.3 17.8 53.3#

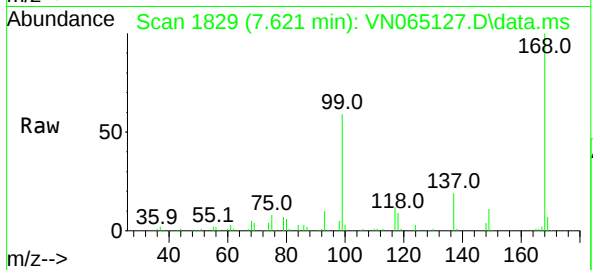
77 0.0 25.0 37.4#



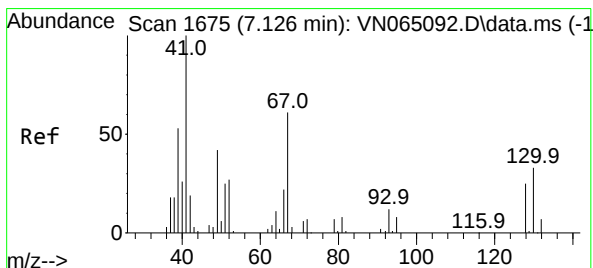
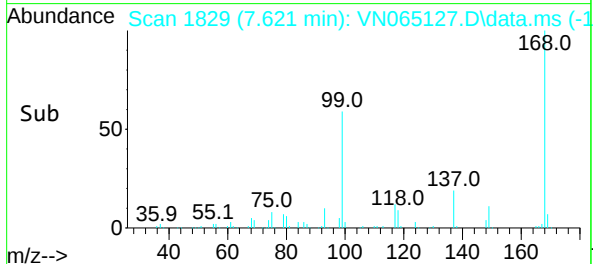
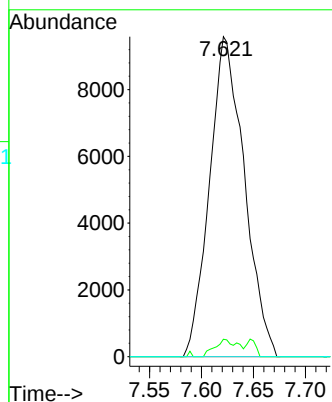


#38  
Carbon Tetrachloride  
Concen: 5.57 ug/l  
RT: 7.621 min Scan# 1829  
Delta R.T. -0.113 min  
Lab File: VN065127.D  
Acq: 15 Dec 2020 2:34

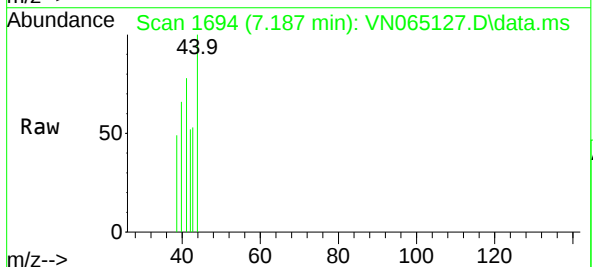
Instrument :  
MSVOA\_N  
ClientSampled :



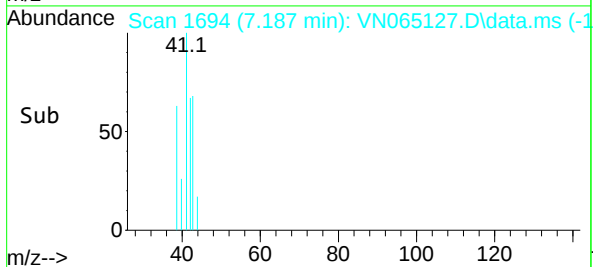
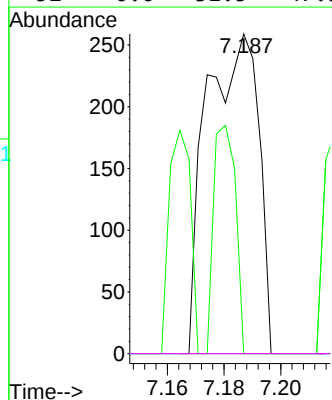
Tgt Ion:117 Resp: 22336  
Ion Ratio Lower Upper  
117 100  
119 5.4 76.7 115.1#  
121 0.0 25.4 38.2#

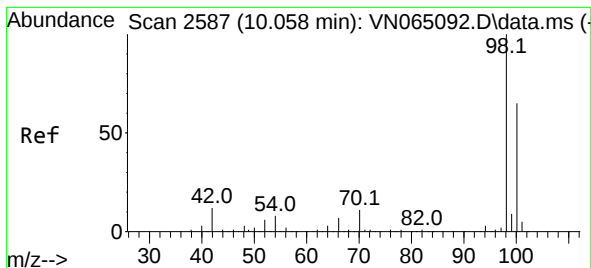


#41  
Methacrylonitrile  
Concen: 0.23 ug/l  
RT: 7.187 min Scan# 1694  
Delta R.T. 0.061 min  
Lab File: VN065127.D  
Acq: 15 Dec 2020 2:34



Tgt Ion: 41 Resp: 329  
Ion Ratio Lower Upper  
41 100  
39 30.1 51.0 76.6#  
67 0.0 79.8 119.8#  
52 0.0 31.5 47.3#

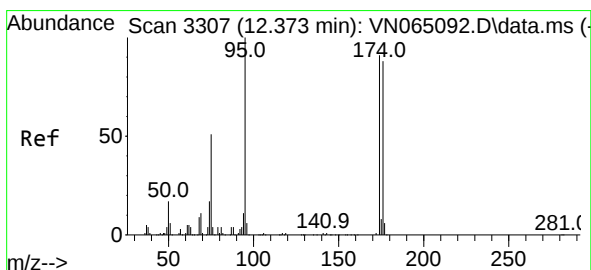
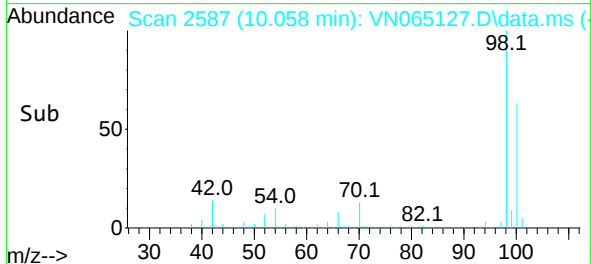
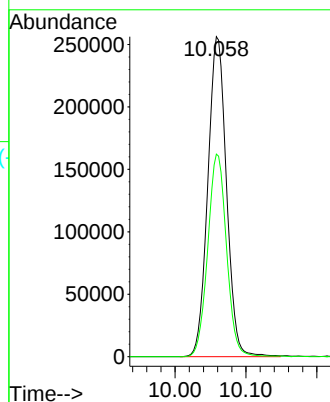
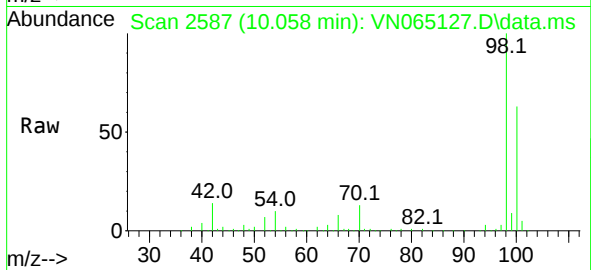




#50  
Toluene-d8  
Concen: 52.31 ug/l  
RT: 10.058 min Scan# 2587  
Delta R.T. 0.000 min  
Lab File: VN065127.D  
Acq: 15 Dec 2020 2:34

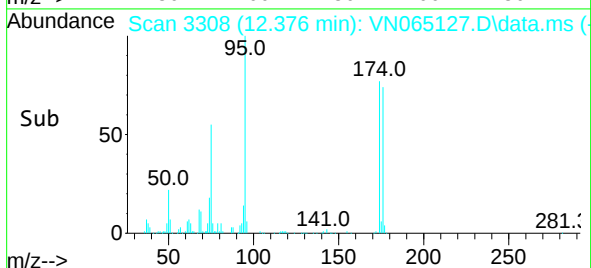
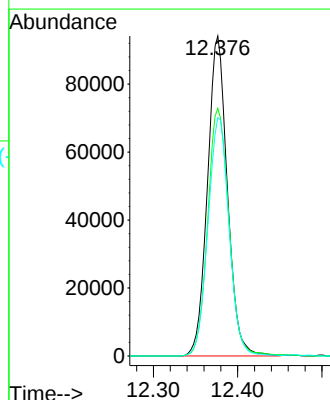
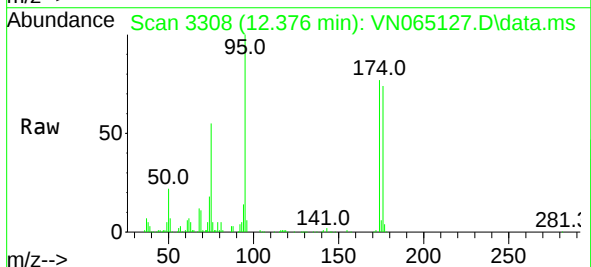
Instrument :  
MSVOA\_N  
ClientSampled :

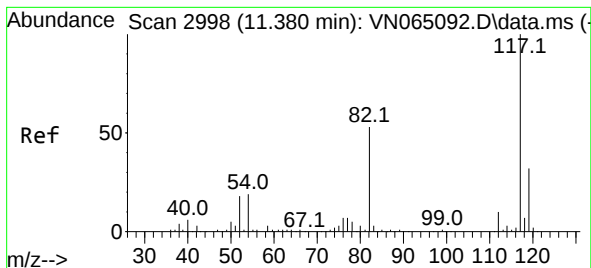
Tgt Ion: 98 Resp: 467992  
Ion Ratio Lower Upper  
98 100  
100 63.7 51.7 77.5



#62  
4-Bromofluorobenzene  
Concen: 50.24 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.003 min  
Lab File: VN065127.D  
Acq: 15 Dec 2020 2:34

Tgt Ion: 95 Resp: 154781  
Ion Ratio Lower Upper  
95 100  
174 82.7 0.0 160.4  
176 78.9 0.0 158.4

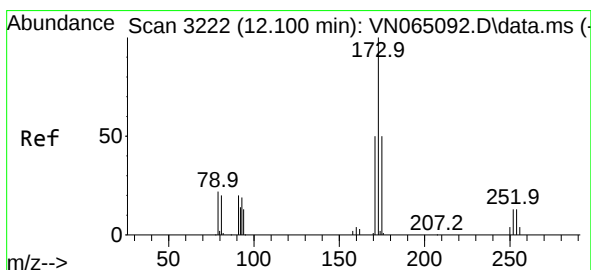
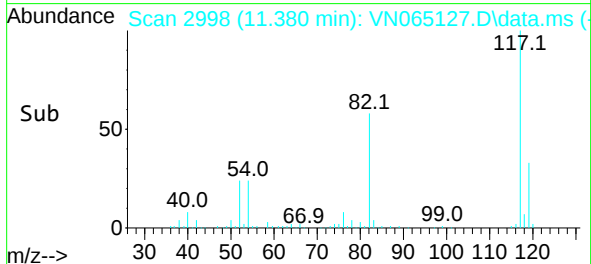
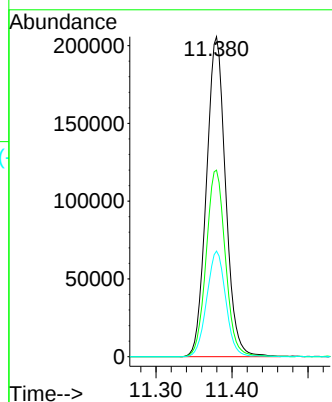
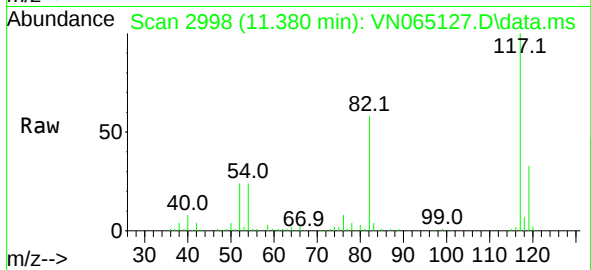




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.380 min Scan# 2998  
Delta R.T. -0.000 min  
Lab File: VN065127.D  
Acq: 15 Dec 2020 2:34

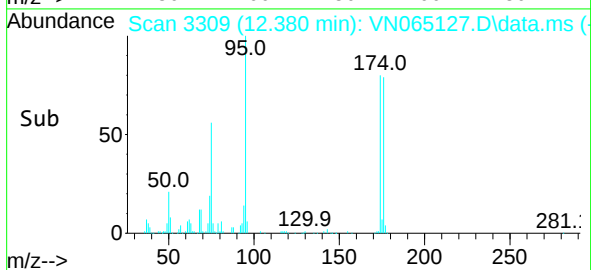
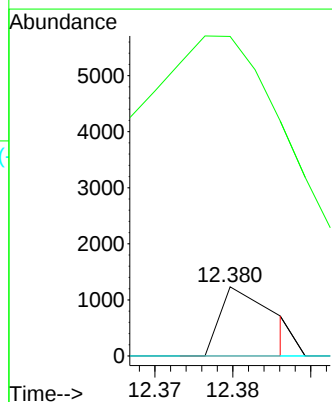
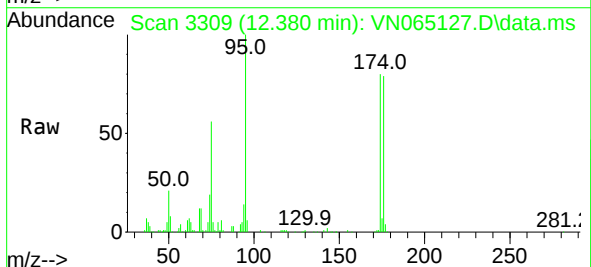
Instrument :  
MSVOA\_N  
ClientSampled :

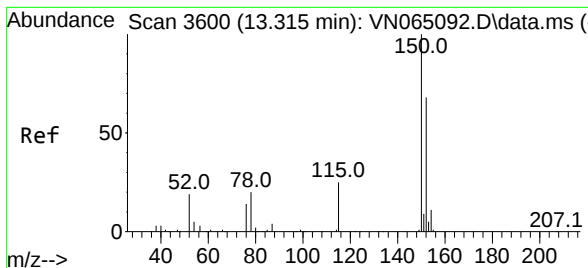
Tgt Ion:117 Resp: 360500  
Ion Ratio Lower Upper  
117 100  
82 58.3 44.2 66.2  
119 33.0 25.8 38.6



#71  
Bromoform  
Concen: 0.24 ug/l  
RT: 12.380 min Scan# 3309  
Delta R.T. 0.280 min  
Lab File: VN065127.D  
Acq: 15 Dec 2020 2:34

Tgt Ion:173 Resp: 563  
Ion Ratio Lower Upper  
173 100  
175 1475.8 24.3 72.8#  
254 0.0 0.0 0.0

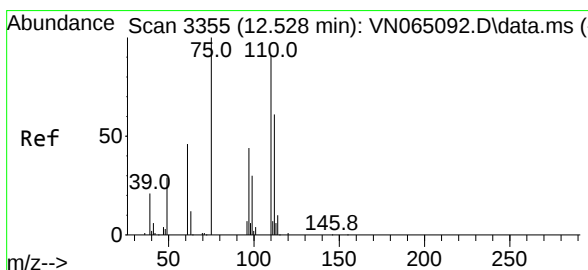
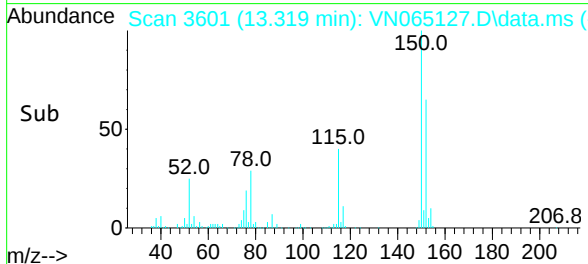
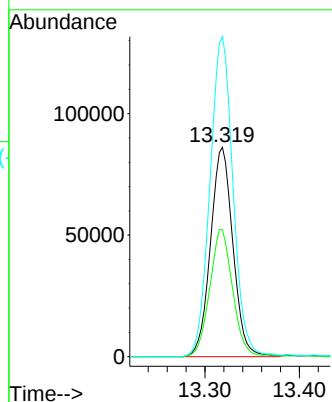
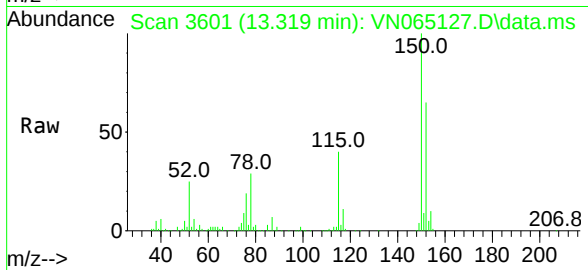




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 13.319 min Scan# 3601  
 Delta R.T. 0.004 min  
 Lab File: VN065127.D  
 Acq: 15 Dec 2020 2:34

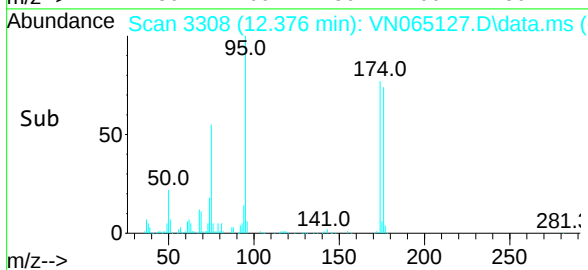
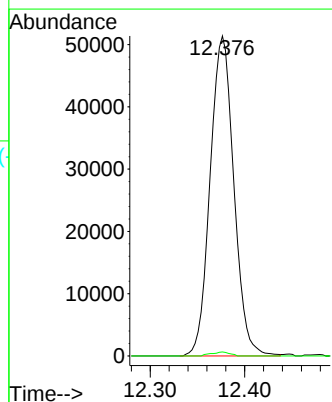
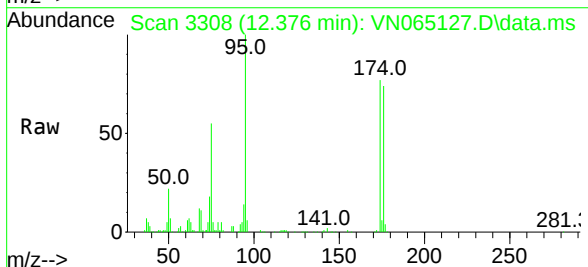
Instrument :  
 MSVOA\_N  
 ClientSampled :

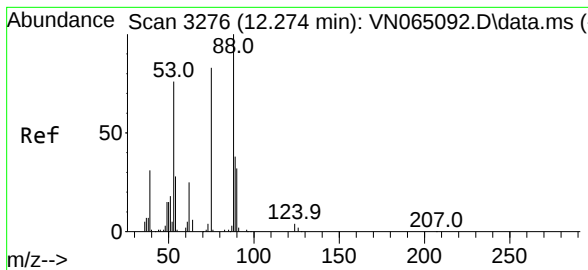
Tgt Ion:152 Resp: 142069  
 Ion Ratio Lower Upper  
 152 100  
 115 61.5 29.7 89.1  
 150 156.7 0.0 350.6



#76  
 1,2,3-Trichloropropane  
 Concen: 35.12 ug/l  
 RT: 12.376 min Scan# 3308  
 Delta R.T. -0.152 min  
 Lab File: VN065127.D  
 Acq: 15 Dec 2020 2:34

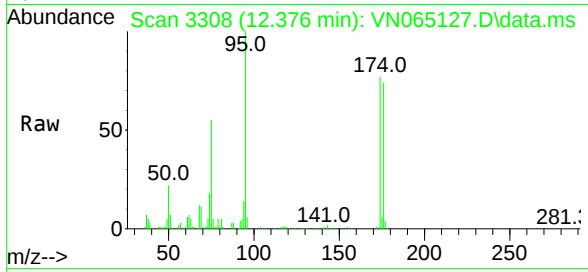
Tgt Ion: 75 Resp: 89522  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 97.71 ug/l  
 RT: 12.376 min Scan# 3308  
 Delta R.T. 0.102 min  
 Lab File: VN065127.D  
 Acq: 15 Dec 2020 2:34

Instrument :  
 MSVOA\_N  
 ClientSampleId :



| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 0.1   | 67.0  | 100.4# |
| 89      | 0.0   | 39.6  | 59.4#  |

