

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101321\  
 Data File : VN068913.D  
 Acq On : 13 Oct 2021 21:50  
 Operator : JC/MD  
 Sample : M4192-21 10X  
 Misc : 4.68g/5mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 HAR-21

Quant Time: Oct 14 06:45:02 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 13 05:44:40 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.088  | 168  | 414954   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.968  | 114  | 668031   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.746 | 117  | 615838   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.678 | 152  | 238671   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.437  | 65    | 238638   | 43.619   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 61 - 141 | Recovery | =    | 87.240%  |
| 35) Dibromofluoromethane    | 8.024  | 113   | 196794   | 50.633   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 69 - 133 | Recovery | =    | 101.260% |
| 50) Toluene-d8              | 10.443 | 98    | 815651   | 52.449   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 65 - 126 | Recovery | =    | 104.900% |
| 62) 4-Bromofluorobenzene    | 12.733 | 95    | 279653   | 47.663   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 135 | Recovery | =    | 95.320%  |

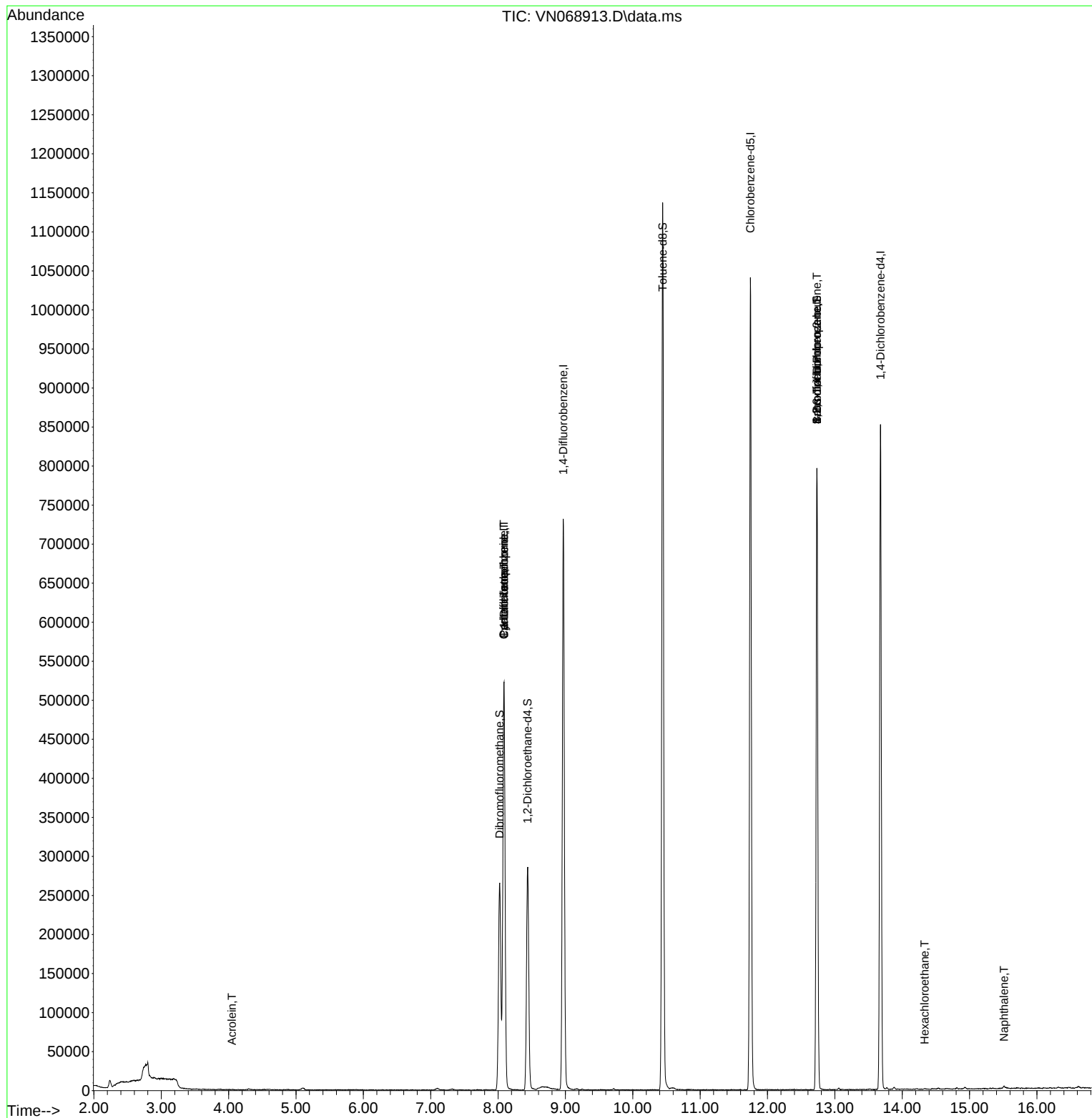
| Target Compounds              |        |     |        |        | Qvalue |    |
|-------------------------------|--------|-----|--------|--------|--------|----|
| 13) Acrolein                  | 4.049  | 56  | 167    | 0.378  | ug/l # | 19 |
| 31) Cyclohexane               | 8.086  | 56  | 8465   | 0.995  | ug/l # | 1  |
| 36) 1,1-Dichloropropene       | 8.088  | 75  | 30531  | 5.351  | ug/l # | 50 |
| 38) Carbon Tetrachloride      | 8.086  | 117 | 41280  | 6.587  | ug/l # | 15 |
| 71) Bromoform                 | 12.733 | 173 | 1621   | 0.444  | ug/l # | 1  |
| 76) 1,2,3-Trichloropropane    | 12.733 | 75  | 143560 | 28.270 | ug/l # | 1  |
| 81) trans-1,4-Dichloro-2-b... | 12.733 | 75  | 143560 | 67.633 | ug/l # | 12 |
| 90) Hexachloroethane          | 14.332 | 117 | 682    | 0.203  | ug/l # | 12 |
| 95) Naphthalene               | 15.512 | 128 | 3090   | 4.069  | ug/l # | 80 |

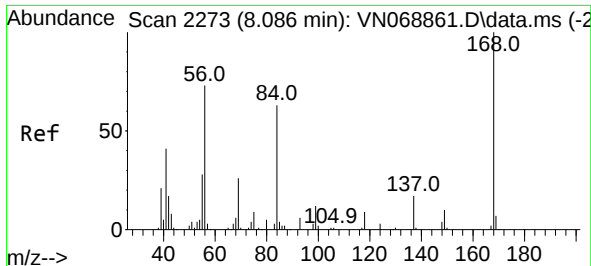
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101321\  
Data File : VN068913.D  
Acq On : 13 Oct 2021 21:50  
Operator : JC/MD  
Sample : M4192-21 10X  
Misc : 4.68g/5mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
HAR-21

Quant Time: Oct 14 06:45:02 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 13 05:44:40 2021  
Response via : Initial Calibration

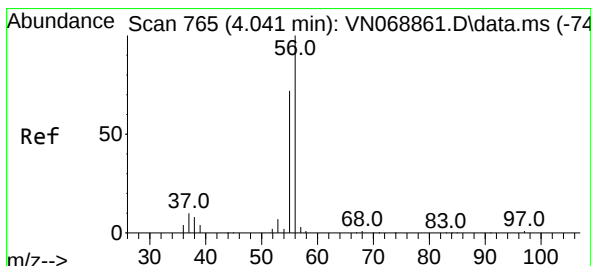
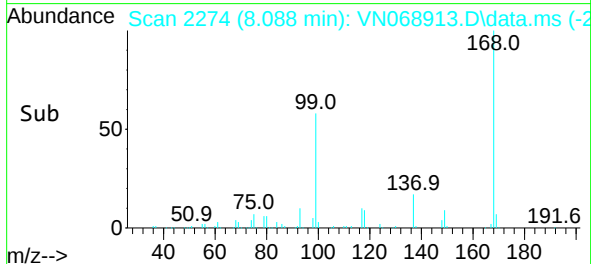
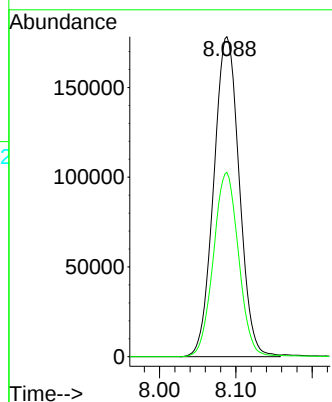
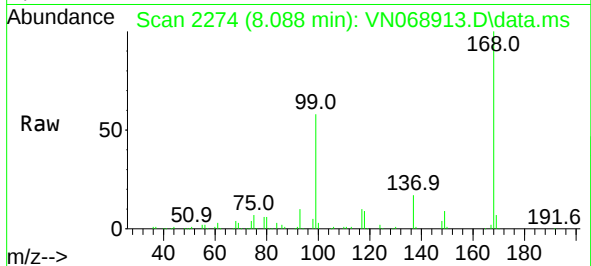




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. 0.002 min  
Lab File: VN068913.D  
Acq: 13 Oct 2021 21:50

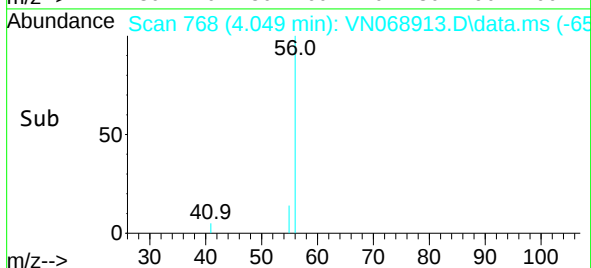
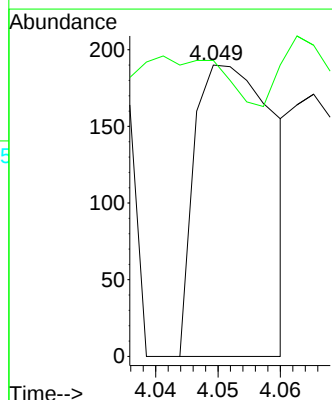
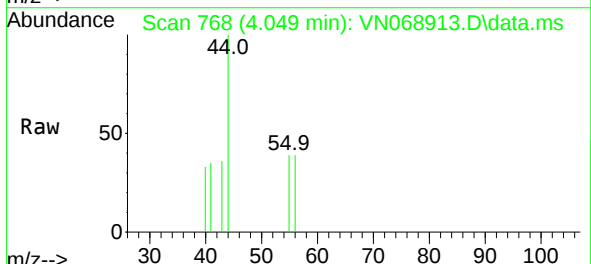
Instrument :  
MSVOA\_N  
ClientSampled :  
HAR-21

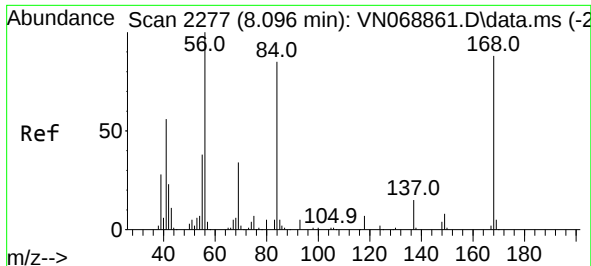
Tgt Ion:168 Resp: 414954  
Ion Ratio Lower Upper  
168 100  
99 57.6 48.9 73.3



#13  
Acrolein  
Concen: 0.378 ug/l  
RT: 4.049 min Scan# 768  
Delta R.T. 0.008 min  
Lab File: VN068913.D  
Acq: 13 Oct 2021 21:50

Tgt Ion: 56 Resp: 167  
Ion Ratio Lower Upper  
56 100  
55 140.7 58.1 87.1#

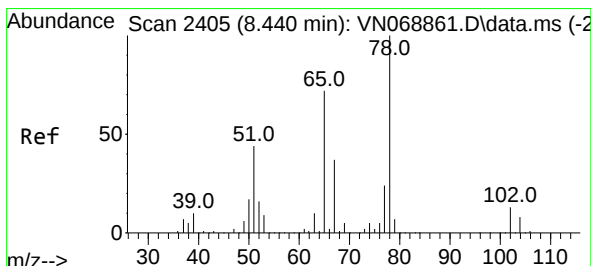
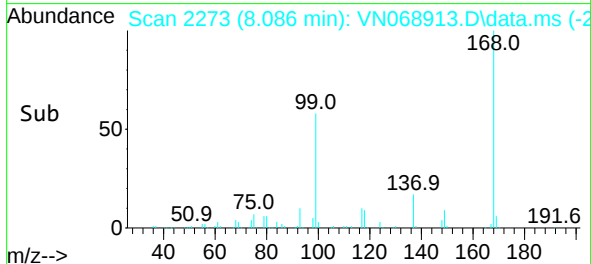
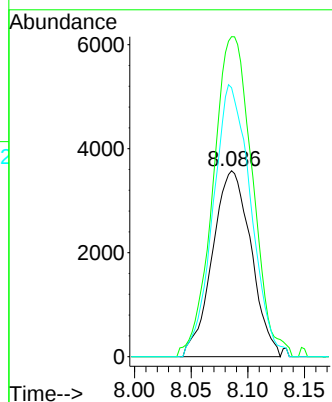
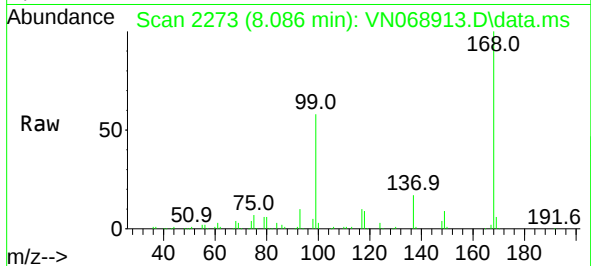




#31  
Cyclohexane  
Concen: 0.995 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.010 min  
Lab File: VN068913.D  
Acq: 13 Oct 2021 21:50

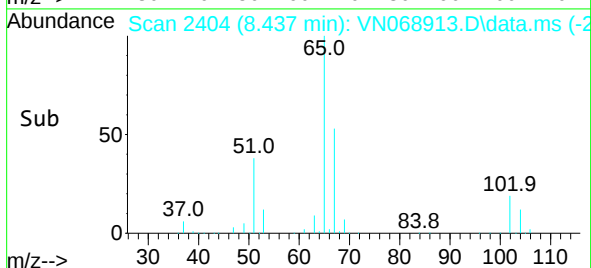
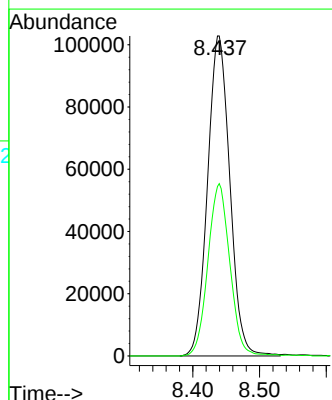
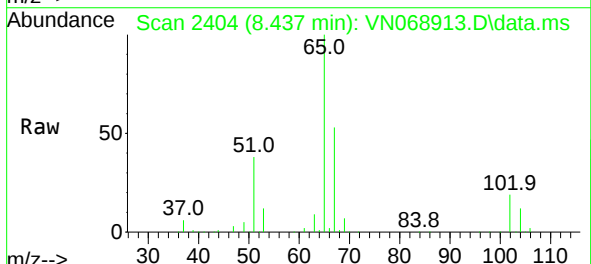
Instrument :  
MSVOA\_N  
ClientSampled :  
HAR-21

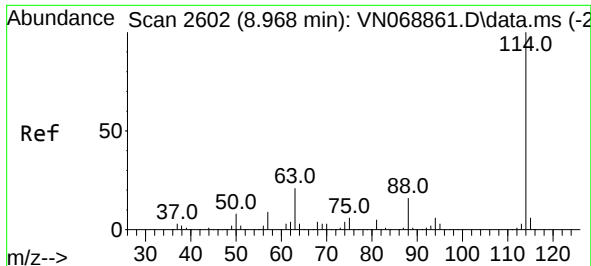
Tgt Ion: 56 Resp: 8465  
Ion Ratio Lower Upper  
56 100  
69 167.4 26.9 40.3#  
84 144.6 67.6 101.4#



#33  
1,2-Dichloroethane-d4  
Concen: 43.619 ug/l  
RT: 8.437 min Scan# 2404  
Delta R.T. -0.003 min  
Lab File: VN068913.D  
Acq: 13 Oct 2021 21:50

Tgt Ion: 65 Resp: 238638  
Ion Ratio Lower Upper  
65 100  
67 52.8 0.0 103.8

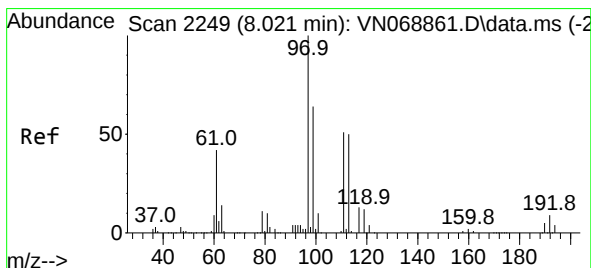
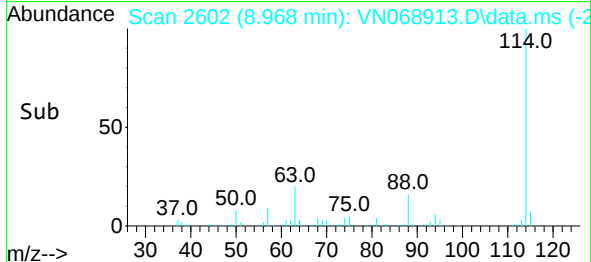
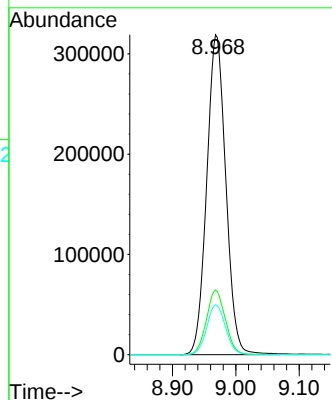
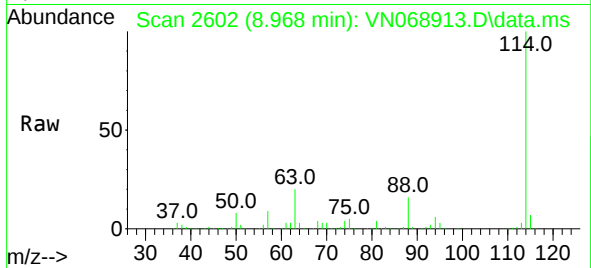




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.968 min Scan# 2602  
Delta R.T. -0.000 min  
Lab File: VN068913.D  
Acq: 13 Oct 2021 21:50

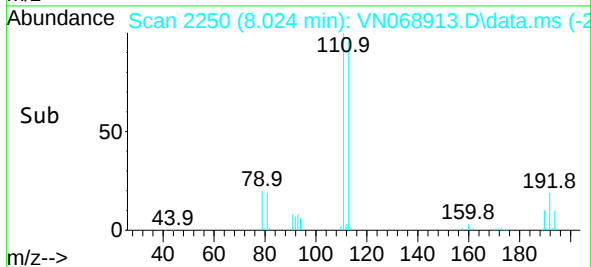
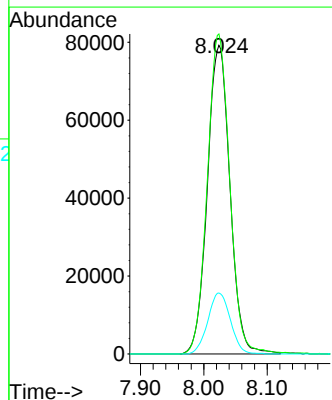
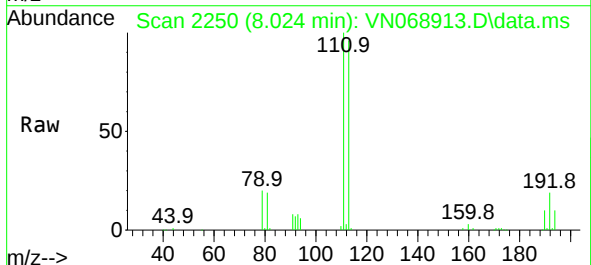
Instrument :  
MSVOA\_N  
ClientSampleId :  
HAR-21

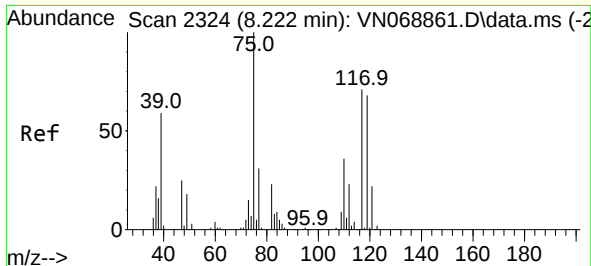
|             |              |
|-------------|--------------|
| Tgt Ion:114 | Resp: 668031 |
| Ion Ratio   | Lower Upper  |
| 114 100     |              |
| 63 20.2     | 0.0 42.6     |
| 88 15.6     | 0.0 32.0     |



#35  
Dibromofluoromethane  
Concen: 50.633 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. 0.003 min  
Lab File: VN068913.D  
Acq: 13 Oct 2021 21:50

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:113 | Resp: | 196794 |
| Ion | Ratio   | Lower | Upper  |
| 113 | 100     |       |        |
| 111 | 102.8   | 83.2  | 124.8  |
| 192 | 19.7    | 15.0  | 22.4   |

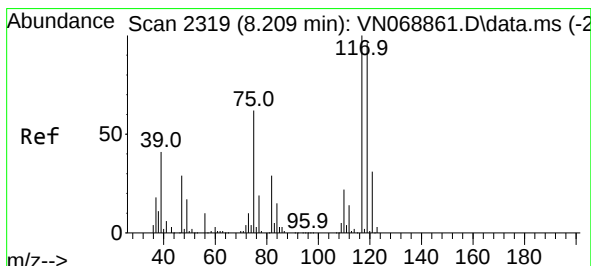
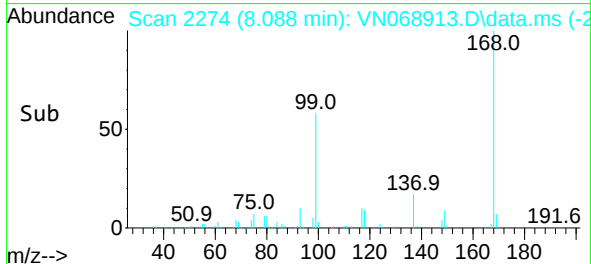
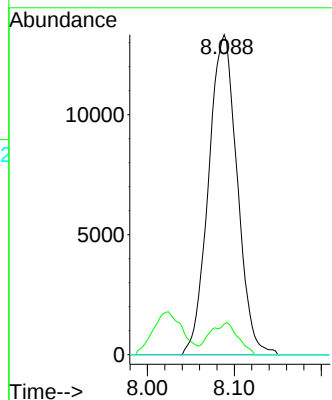
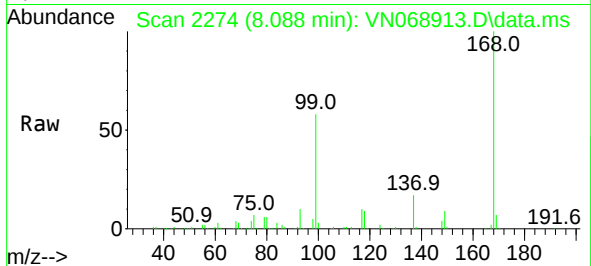




#36  
1,1-Dichloropropene  
Concen: 5.351 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.134 min  
Lab File: VN068913.D  
Acq: 13 Oct 2021 21:50

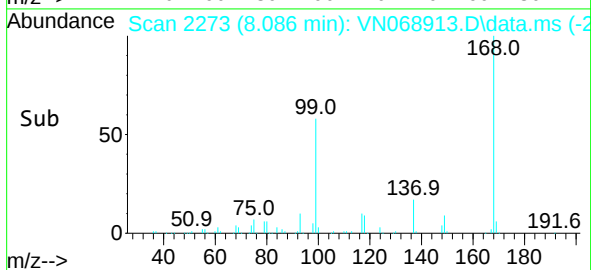
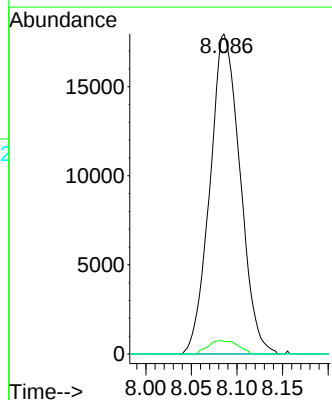
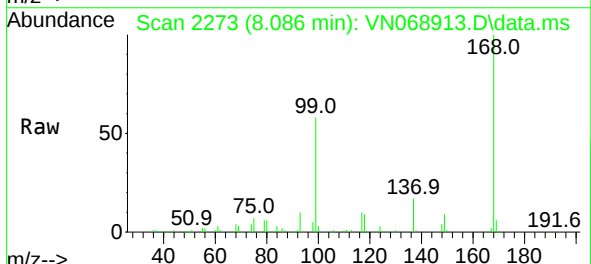
Instrument :  
MSVOA\_N  
ClientSampled :  
HAR-21

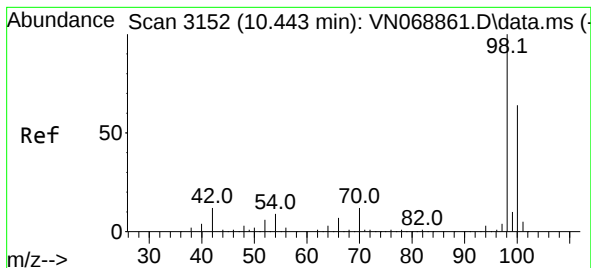
Tgt Ion: 75 Resp: 30531  
Ion Ratio Lower Upper  
75 100  
110 9.8 17.9 53.8#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 6.587 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.123 min  
Lab File: VN068913.D  
Acq: 13 Oct 2021 21:50

Tgt Ion: 117 Resp: 41280  
Ion Ratio Lower Upper  
117 100  
119 3.9 76.9 115.3#  
121 0.0 24.6 37.0#

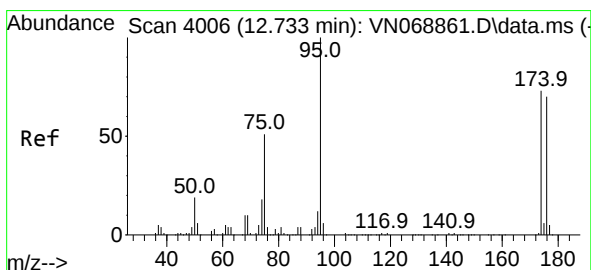
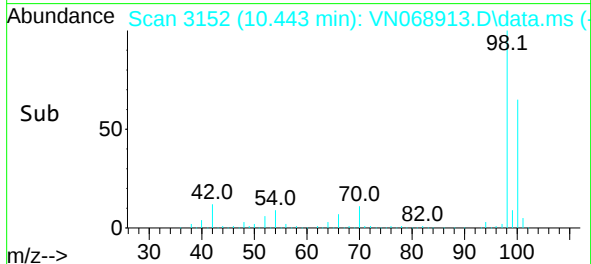
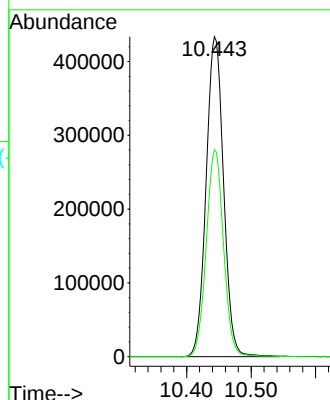
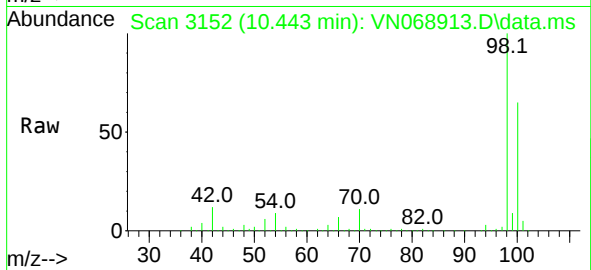




#50  
Toluene-d8  
Concen: 52.449 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.000 min  
Lab File: VN068913.D  
Acq: 13 Oct 2021 21:50

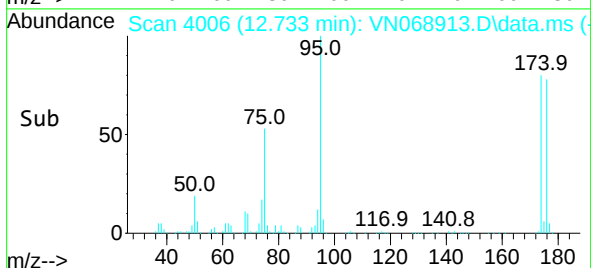
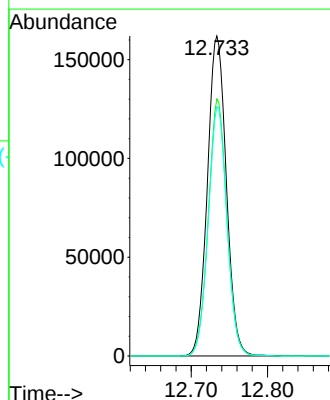
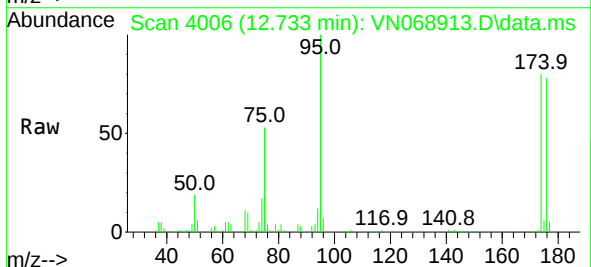
Instrument :  
MSVOA\_N  
ClientSampled :  
HAR-21

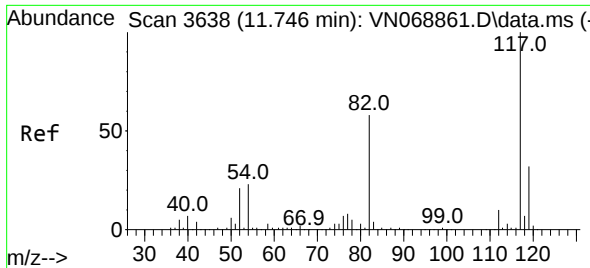
Tgt Ion: 98 Resp: 815651  
Ion Ratio Lower Upper  
98 100  
100 63.9 51.5 77.3



#62  
4-Bromofluorobenzene  
Concen: 47.663 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.000 min  
Lab File: VN068913.D  
Acq: 13 Oct 2021 21:50

Tgt Ion: 95 Resp: 279653  
Ion Ratio Lower Upper  
95 100  
174 78.7 0.0 144.8  
176 76.7 0.0 140.0

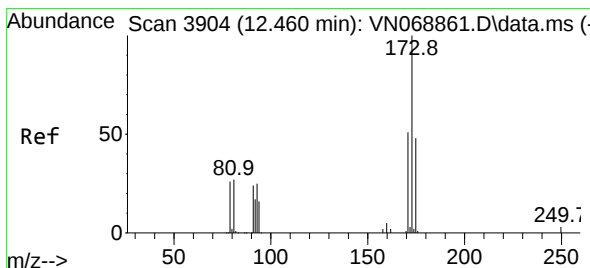
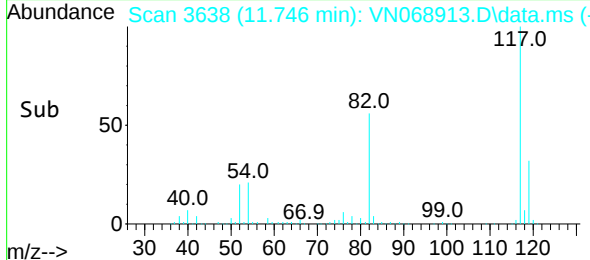
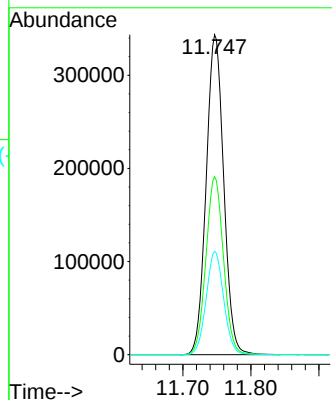
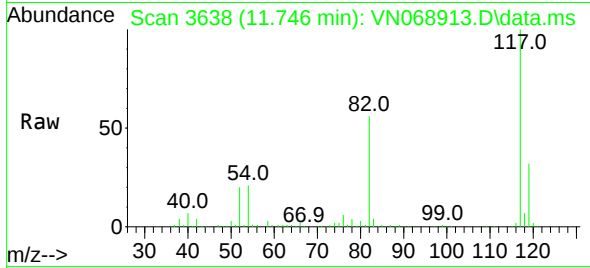




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.746 min Scan# 3638  
Delta R.T. 0.000 min  
Lab File: VN068913.D  
Acq: 13 Oct 2021 21:50

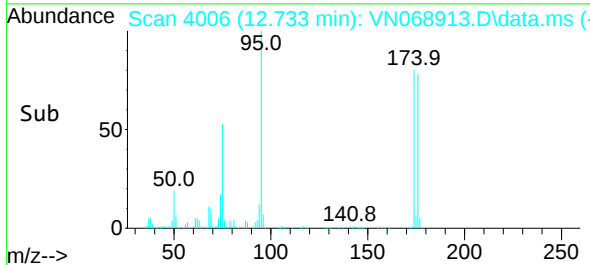
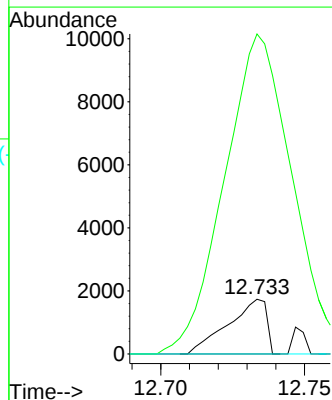
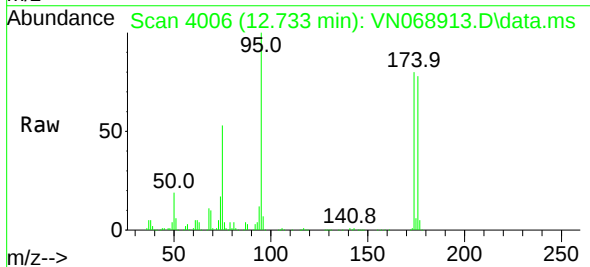
Instrument :  
MSVOA\_N  
ClientSampleId :  
HAR-21

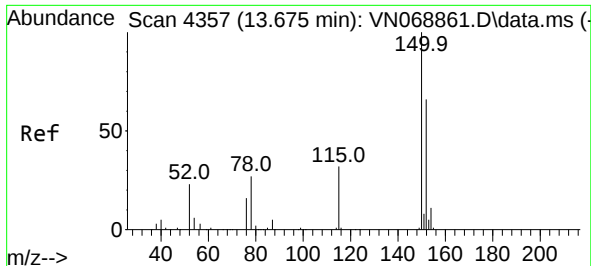
Tgt Ion:117 Resp: 615838  
Ion Ratio Lower Upper  
117 100  
82 55.6 46.4 69.6  
119 32.3 26.0 39.0



#71  
Bromoform  
Concen: 0.444 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.274 min  
Lab File: VN068913.D  
Acq: 13 Oct 2021 21:50

Tgt Ion:173 Resp: 1621  
Ion Ratio Lower Upper  
173 100  
175 953.9 23.8 71.5#  
254 0.0 0.0 0.0

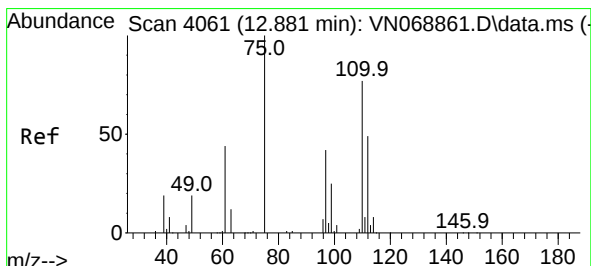
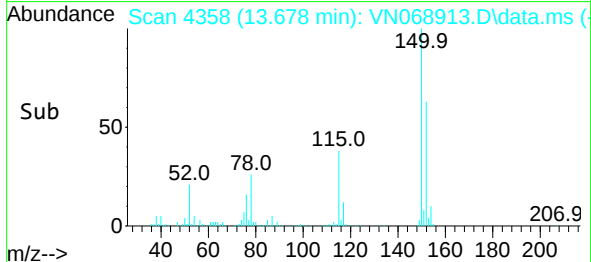
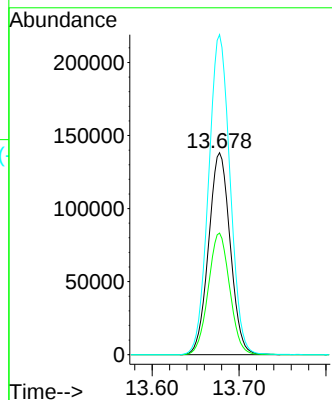
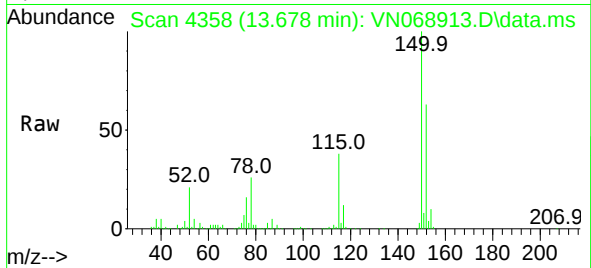




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.678 min Scan# 4358  
Delta R.T. 0.003 min  
Lab File: VN068913.D  
Acq: 13 Oct 2021 21:50

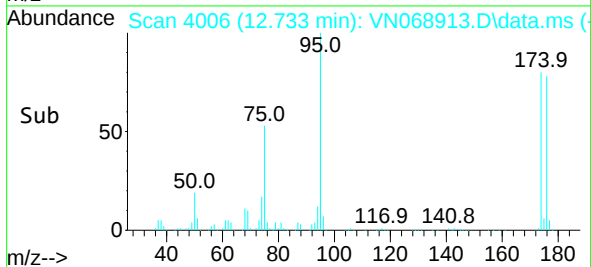
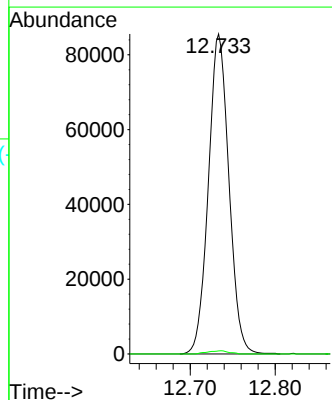
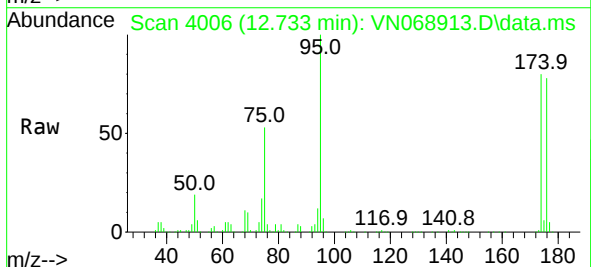
Instrument :  
MSVOA\_N  
ClientSampled :  
HAR-21

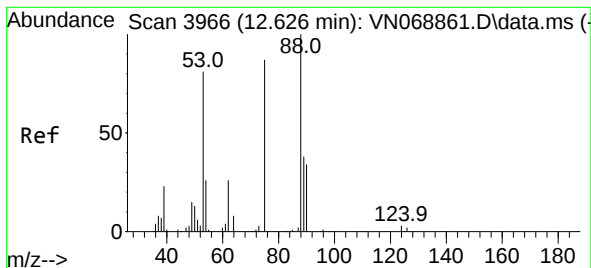
Tgt Ion:152 Resp: 238671  
Ion Ratio Lower Upper  
152 100  
115 59.8 31.4 94.3  
150 157.7 0.0 351.0



#76  
1,2,3-Trichloropropane  
Concen: 28.270 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. -0.147 min  
Lab File: VN068913.D  
Acq: 13 Oct 2021 21:50

Tgt Ion: 75 Resp: 143560  
Ion Ratio Lower Upper  
75 100  
77 1.0 96.2 288.4#

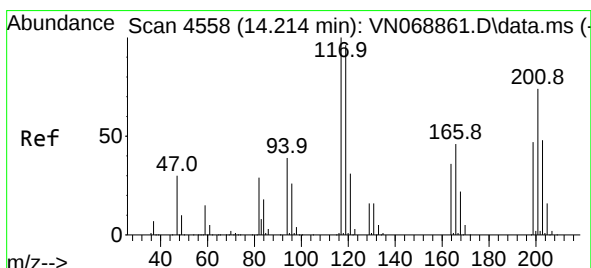
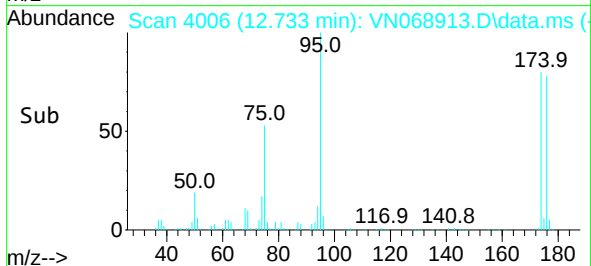
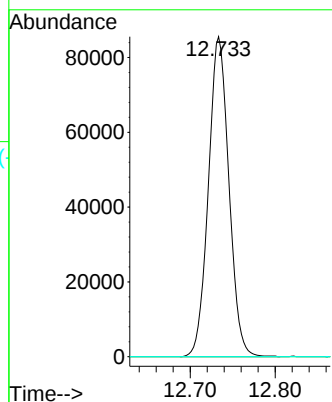
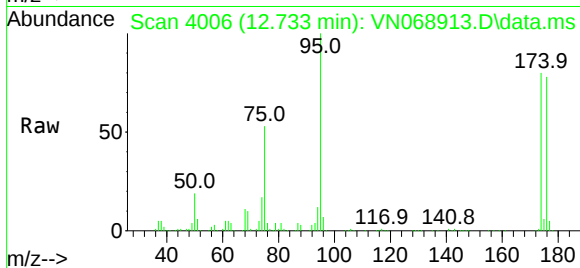




#81  
trans-1,4-Dichloro-2-butene  
Concen: 67.633 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.107 min  
Lab File: VN068913.D  
Acq: 13 Oct 2021 21:50

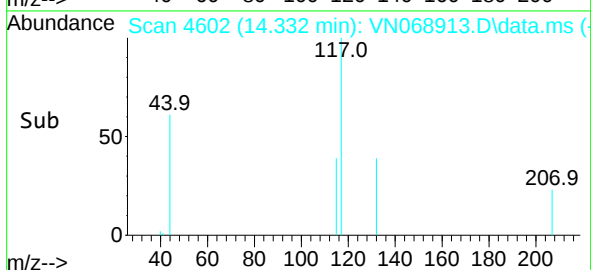
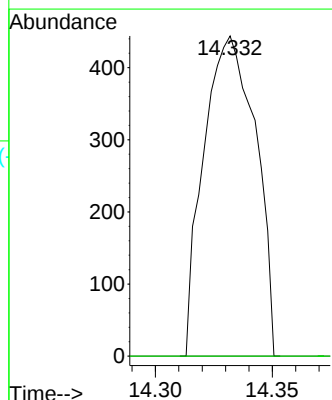
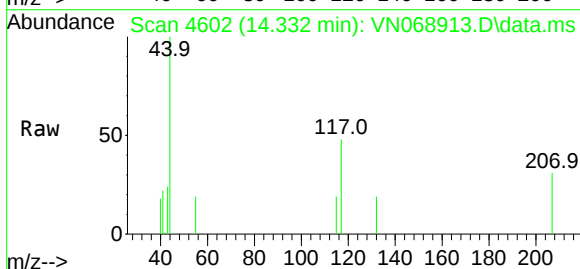
Instrument :  
MSVOA\_N  
ClientSampleId :  
HAR-21

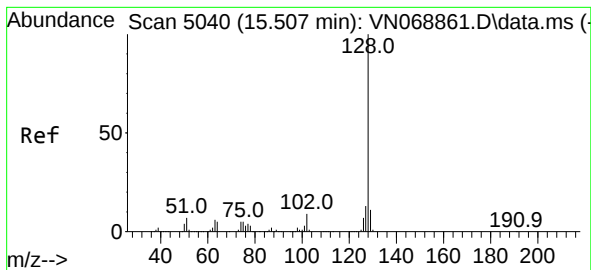
Tgt Ion: 75 Resp: 143560  
Ion Ratio Lower Upper  
75 100  
53 0.0 75.4 113.2#  
89 0.0 36.9 55.3#



#90  
Hexachloroethane  
Concen: 0.203 ug/l  
RT: 14.332 min Scan# 4602  
Delta R.T. 0.118 min  
Lab File: VN068913.D  
Acq: 13 Oct 2021 21:50

Tgt Ion: 117 Resp: 682  
Ion Ratio Lower Upper  
117 100  
201 0.0 37.1 111.5#





#95  
Naphthalene  
Concen: 4.069 ug/l  
RT: 15.512 min Scan# 5042  
Delta R.T. 0.005 min  
Lab File: VN068913.D  
Acq: 13 Oct 2021 21:50

Instrument :  
MSVOA\_N  
ClientSampleId :  
HAR-21

Tgt Ion:128 Resp: 3090  
Ion Ratio Lower Upper  
128 100  
127 4.5 10.5 15.7#  
129 4.3 8.9 13.3#

