

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN070921\  
 Data File : VN067688.D  
 Acq On : 9 Jul 2021 16:15  
 Operator : JC/MD  
 Sample : M2960-02  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 002-35TH-AVE(JULY)

Quant Time: Jul 10 05:20:10 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N070121W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Jul 01 12:09:22 2021  
 Response via : Initial Calibration

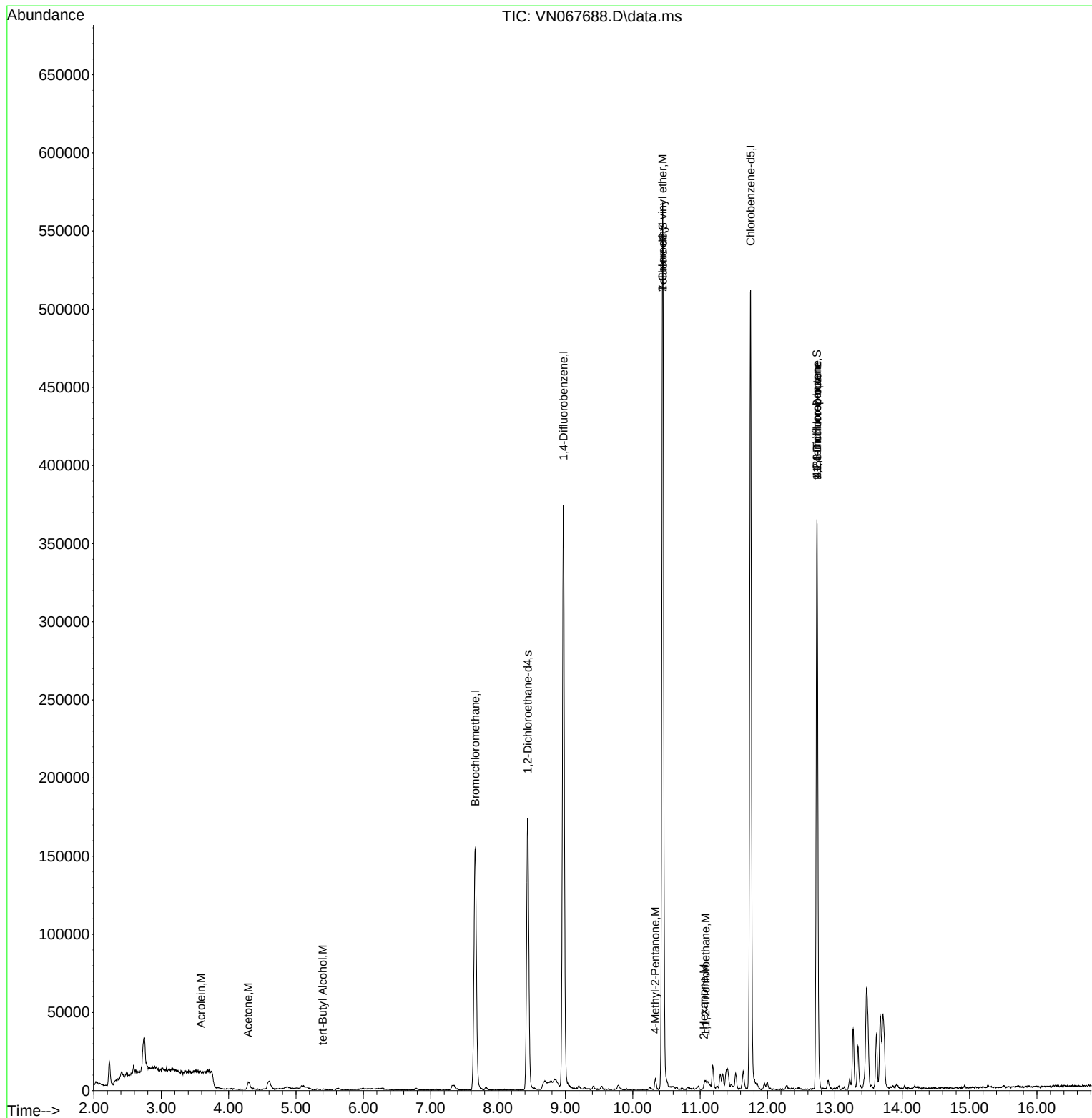
| Compound                      | R.T.   | QIon  | Response | Conc     | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------------|----------|
| -----                         |        |       |          |          |             |          |
| Internal Standards            |        |       |          |          |             |          |
| 1) Bromochloromethane         | 7.662  | 128   | 53702    | 30.000   | ug/l        | 0.00     |
| 28) 1,4-Difluorobenzene       | 8.971  | 114   | 315545   | 30.000   | ug/l        | 0.00     |
| 57) Chlorobenzene-d5          | 11.749 | 117   | 288046   | 30.000   | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |          |             |          |
| 27) 1,2-Dichloroethane-d4     | 8.440  | 65    | 148072   | 34.121   | ug/l        | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 110 | Recovery | = 113.733%# |          |
| 60) 4-Bromofluorobenzene      | 12.733 | 95    | 125757   | 26.837   | ug/l        | 0.00     |
| Spiked Amount                 | 30.000 | Range | 63 - 112 | Recovery | = 89.467%   |          |
| 63) Toluene-d8                | 10.446 | 98    | 399603   | 30.318   | ug/l        | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 112 | Recovery | = 101.067%  |          |
| Target Compounds              |        |       |          |          |             |          |
|                               |        |       |          |          | Qvalue      |          |
| 13) Acrolein                  | 3.588  | 56    | 104      | 0.220    | ug/l        | 93       |
| 15) Acetone                   | 4.291  | 58    | 1109     | 3.044    | ug/l #      | 5        |
| 23) tert-Butyl Alcohol        | 5.396  | 59    | 322      | 0.544    | ug/l #      | 100      |
| 50) 1,1,2-Trichloroethane     | 11.079 | 97    | 1506     | 0.378    | ug/l #      | 15       |
| 55) 2-Chloroethyl vinyl ether | 10.443 | 63    | 428      | 0.321    | ug/l #      | 1        |
| 58) 4-Methyl-2-Pentanone      | 10.336 | 43    | 4795     | 0.957    | ug/l #      | 91       |
| 59) 2-Hexanone                | 11.057 | 43    | 2455     | 0.703    | ug/l #      | 39       |
| 72) 1,2,3-Trichloropropane    | 12.736 | 75    | 71557    | 15.474   | ug/l        | 1        |
| 77) t-1,4-Dichloro-2-butene   | 12.736 | 75    | 71557    | 47.198   | ug/l #      | 6        |
| -----                         |        |       |          |          |             |          |

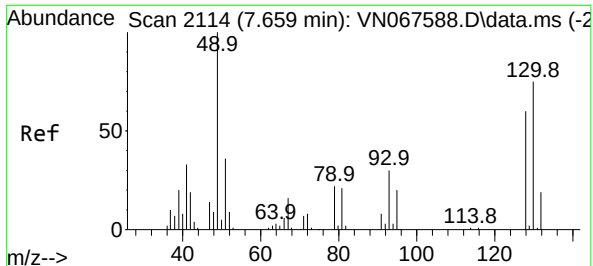
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN067688.D  
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Sample : M2960-02  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JULY)

Quant Time: Jul 10 05:20:10 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N070121W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu Jul 01 12:09:22 2021  
Response via : Initial Calibration

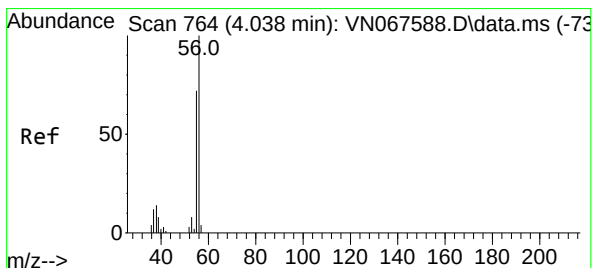
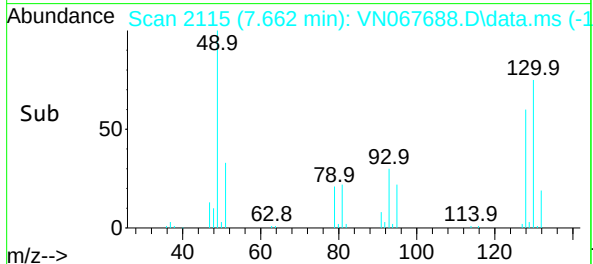
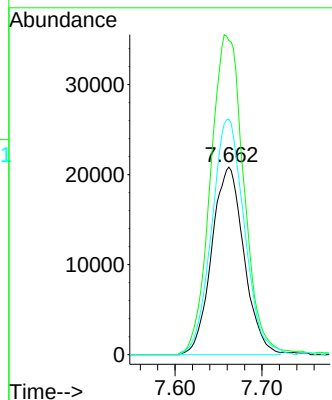
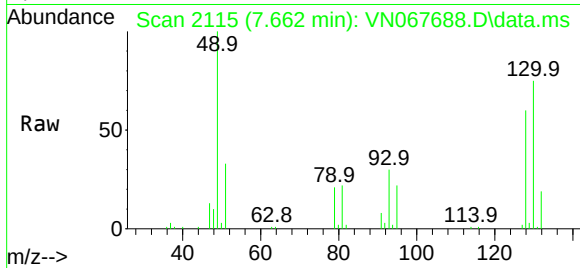




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.662 min Scan# 2115  
Delta R.T. 0.003 min  
Lab File: VN067688.D  
Acq: 9 Jul 2021 16:15

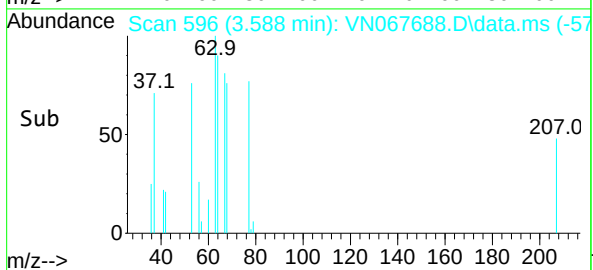
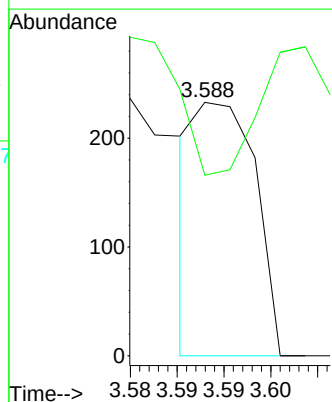
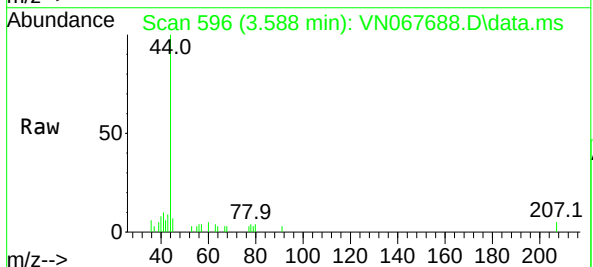
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JULY)

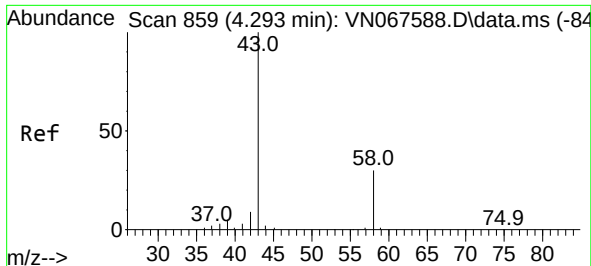
Tgt Ion:128 Resp: 53702  
Ion Ratio Lower Upper  
128 100  
49 176.3 0.0 517.5  
130 127.6 0.0 325.8



#13  
Acrolein  
Concen: 0.220 ug/l  
RT: 3.588 min Scan# 596  
Delta R.T. -0.450 min  
Lab File: VN067688.D  
Acq: 9 Jul 2021 16:15

Tgt Ion: 56 Resp: 104  
Ion Ratio Lower Upper  
56 100  
55 66.3 57.5 86.3

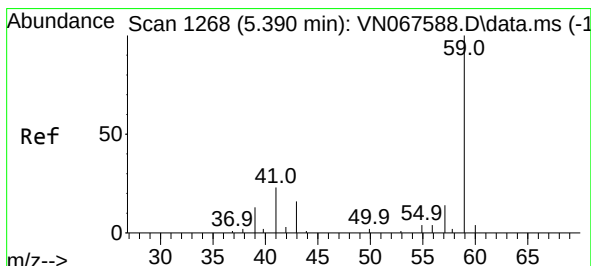
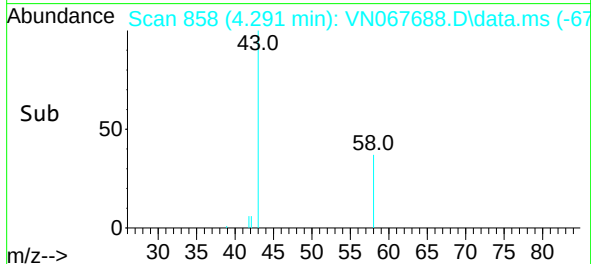
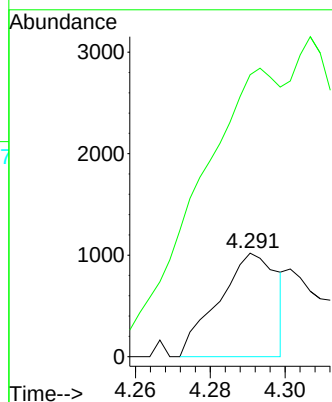
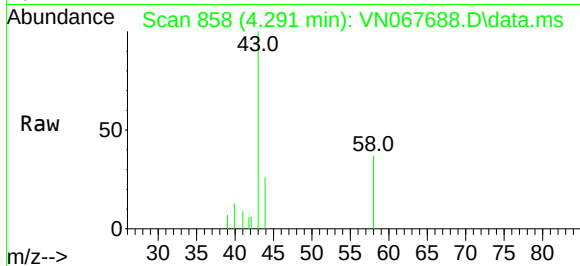




#15  
Acetone  
Concen: 3.044 ug/l  
RT: 4.291 min Scan# 858  
Delta R.T. -0.003 min  
Lab File: VN067688.D  
Acq: 9 Jul 2021 16:15

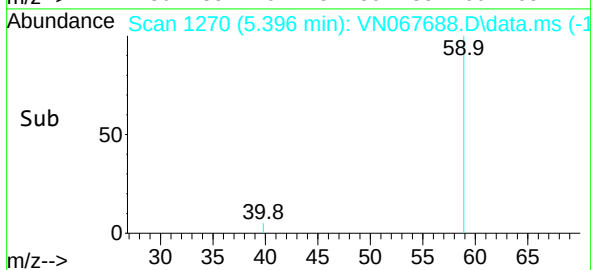
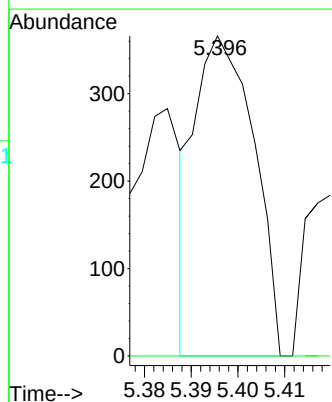
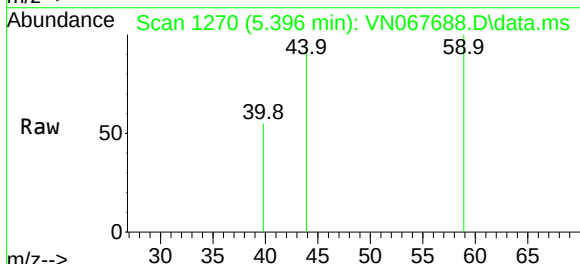
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JULY)

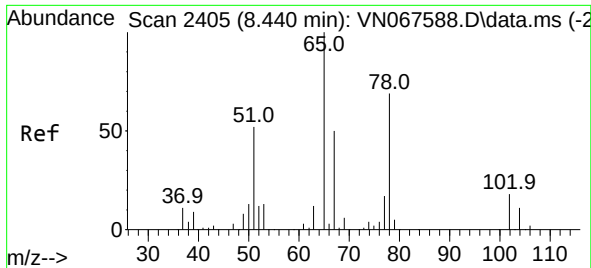
Tgt Ion: 58 Resp: 1109  
Ion Ratio Lower Upper  
58 100  
43 150.2 289.6 434.4#



#23  
tert-Butyl Alcohol  
Concen: 0.544 ug/l  
RT: 5.396 min Scan# 1270  
Delta R.T. 0.005 min  
Lab File: VN067688.D  
Acq: 9 Jul 2021 16:15

Tgt Ion: 59 Resp: 322  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.1 0.1#



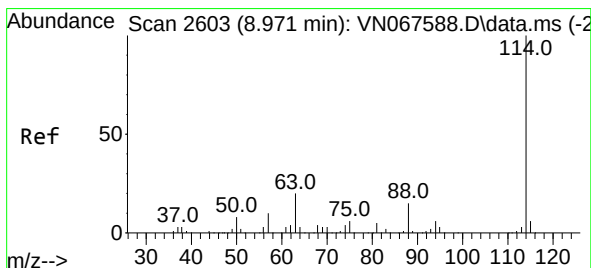
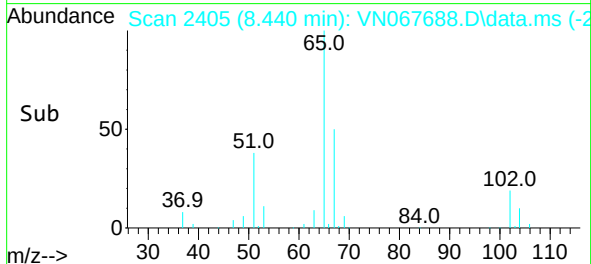
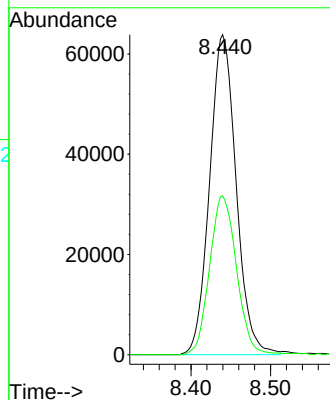
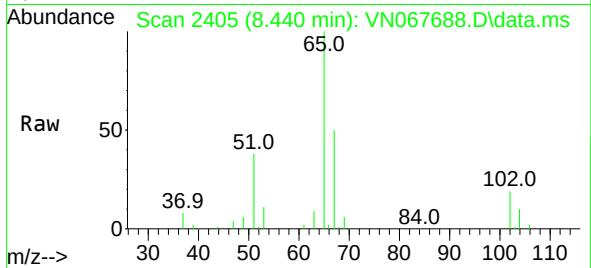


#27

1,2-Dichloroethane-d4  
Concen: 34.121 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. 0.000 min  
Lab File: VN067688.D  
Acq: 9 Jul 2021 16:15

Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JULY)

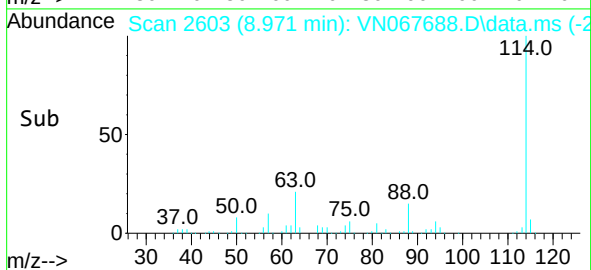
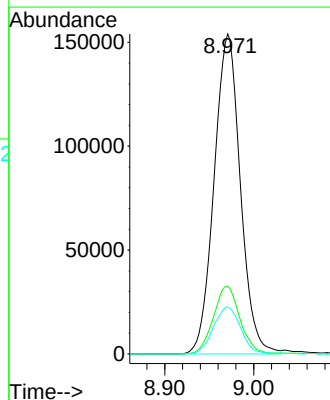
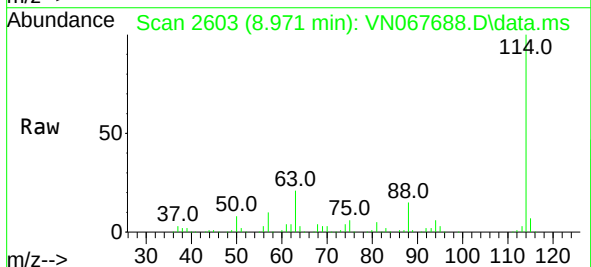
Tgt Ion: 65 Resp: 148072  
Ion Ratio Lower Upper  
65 100  
67 50.1 39.8 59.8

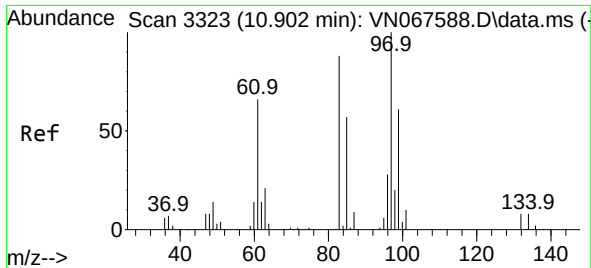


#28

1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.000 min  
Lab File: VN067688.D  
Acq: 9 Jul 2021 16:15

Tgt Ion: 114 Resp: 315545  
Ion Ratio Lower Upper  
114 100  
63 21.4 20.3 30.5  
88 15.2 14.6 22.0

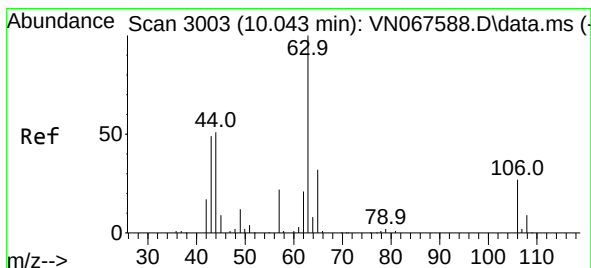
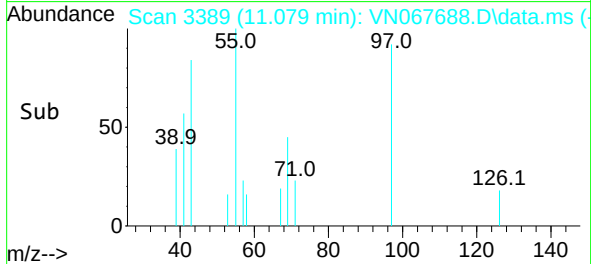
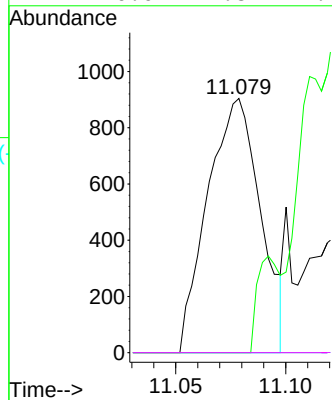
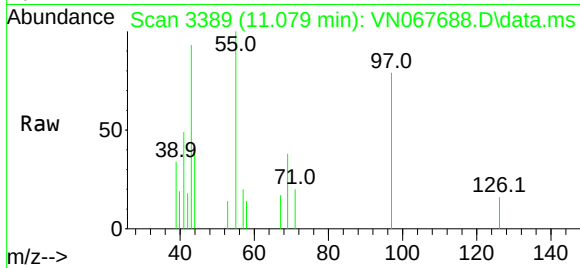




#50  
1,1,2-Trichloroethane  
Concen: 0.378 ug/l  
RT: 11.079 min Scan# 3389  
Delta R.T. 0.177 min  
Lab File: VN067688.D  
Acq: 9 Jul 2021 16:15

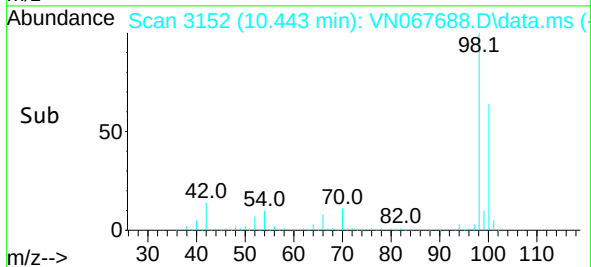
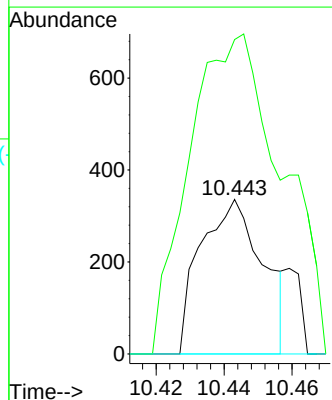
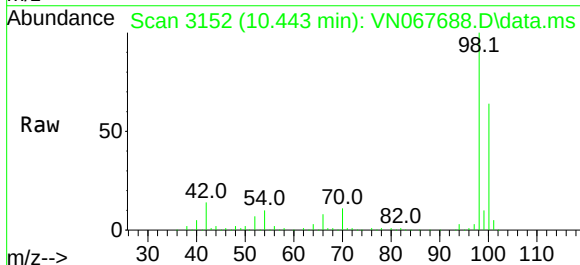
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JULY)

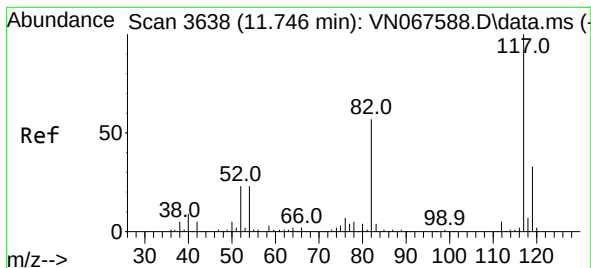
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 97 | Resp: | 1506        |
| Ion         | Ratio | Lower Upper |
| 97          | 100   |             |
| 83          | 0.0   | 69.6 104.4# |
| 85          | 0.0   | 45.2 67.8#  |
| 99          | 0.0   | 47.8 71.6#  |



#55  
2-Chloroethyl vinyl ether  
Concen: 0.321 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.400 min  
Lab File: VN067688.D  
Acq: 9 Jul 2021 16:15

|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion: 63 | Resp: | 428   |       |
| Ion         | Ratio | Lower | Upper |
| 63          | 100   |       |       |
| 65          | 135.0 | 25.6  | 38.4# |
| 106         | 0.0   | 20.0  | 30.0# |

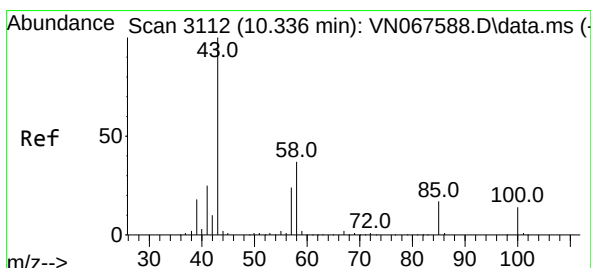
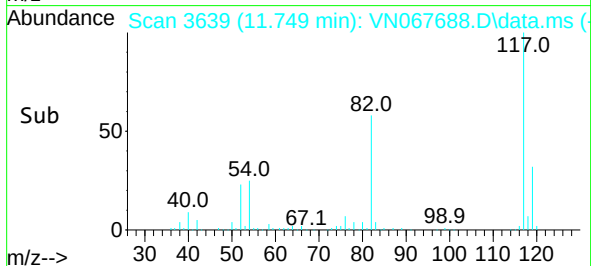
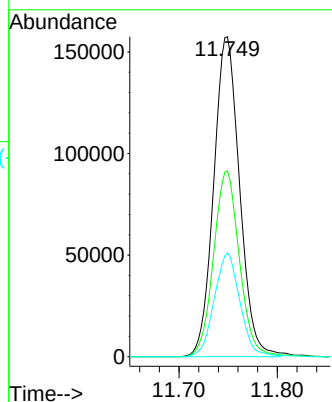
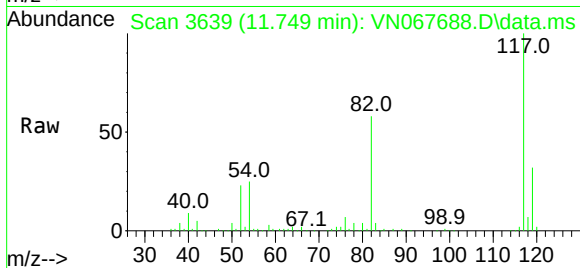




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.749 min Scan# 3639  
Delta R.T. 0.003 min  
Lab File: VN067688.D  
Acq: 9 Jul 2021 16:15

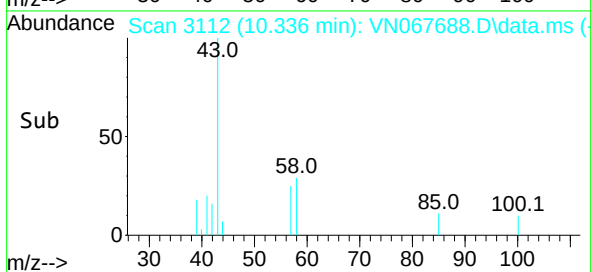
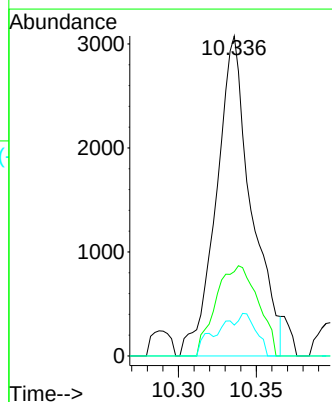
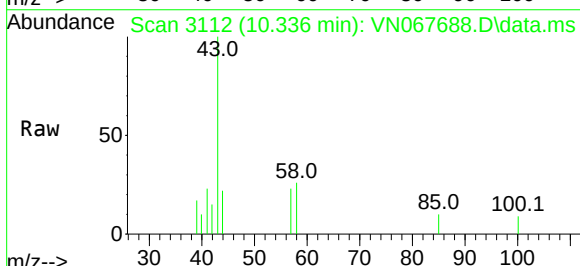
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JULY)

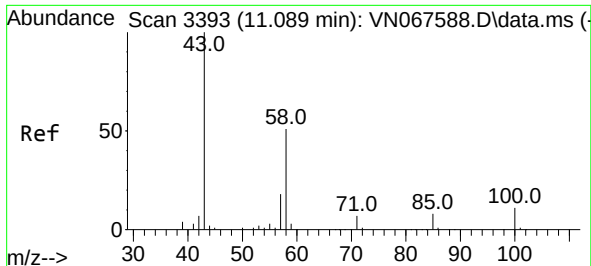
Tgt Ion:117 Resp: 288046  
Ion Ratio Lower Upper  
117 100  
82 58.0 52.5 78.7  
119 32.3 25.8 38.8



#58  
4-Methyl-2-Pentanone  
Concen: 0.957 ug/l  
RT: 10.336 min Scan# 3112  
Delta R.T. 0.000 min  
Lab File: VN067688.D  
Acq: 9 Jul 2021 16:15

Tgt Ion: 43 Resp: 4795  
Ion Ratio Lower Upper  
43 100  
58 34.1 29.0 43.4  
85 7.0 13.2 19.8#

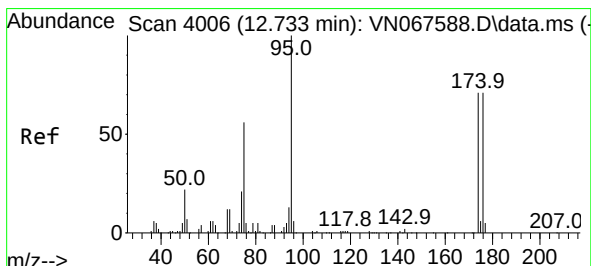
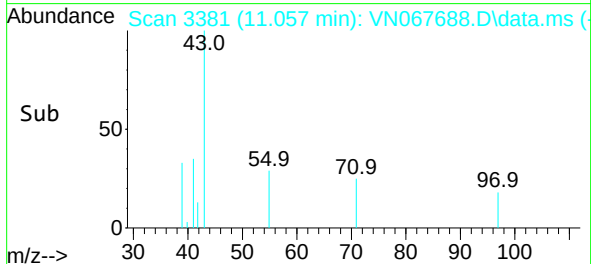
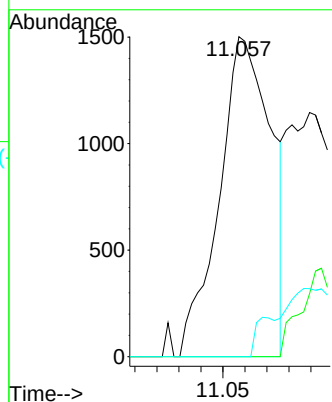
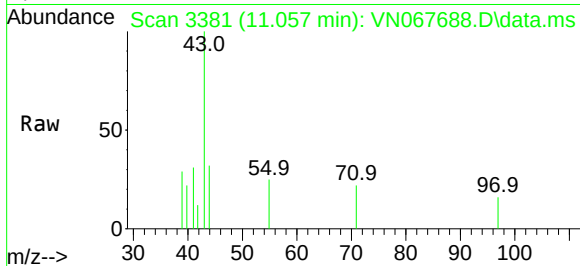




#59  
2-Hexanone  
Concen: 0.703 ug/l  
RT: 11.057 min Scan# 3381  
Delta R.T. -0.032 min  
Lab File: VN067688.D  
Acq: 9 Jul 2021 16:15

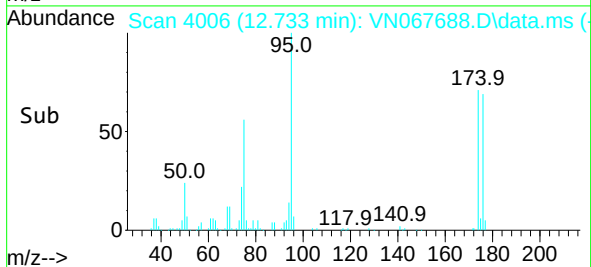
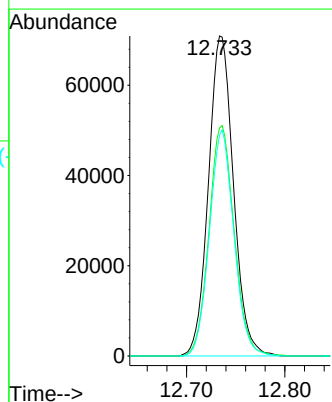
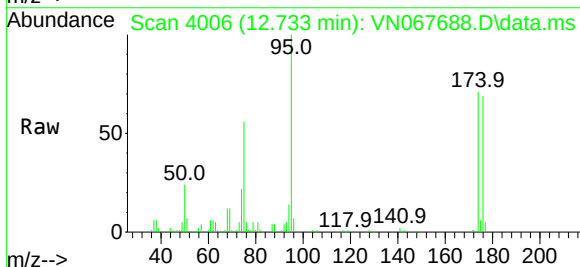
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JULY)

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 2455  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 58 0.0      | 39.4 59.0#  |
| 57 4.6      | 14.4 21.6#  |

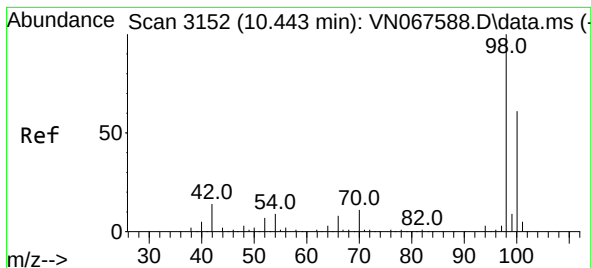


#60  
4-Bromofluorobenzene  
Concen: 26.837 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.000 min  
Lab File: VN067688.D  
Acq: 9 Jul 2021 16:15

|             |              |
|-------------|--------------|
| Tgt Ion: 95 | Resp: 125757 |
| Ion Ratio   | Lower Upper  |
| 95 100      |              |
| 174 72.7    | 47.7 71.5#   |
| 176 69.0    | 45.7 68.5#   |



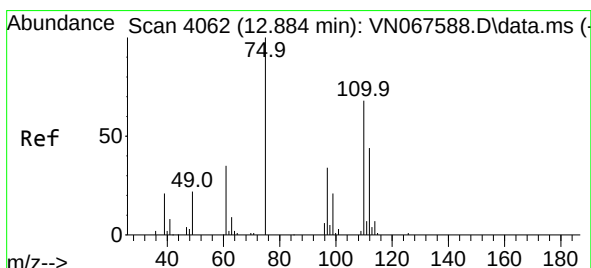
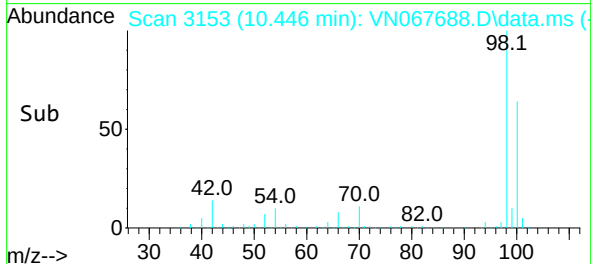
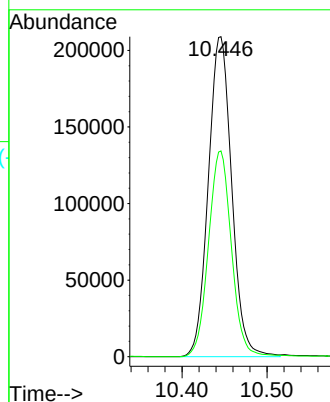
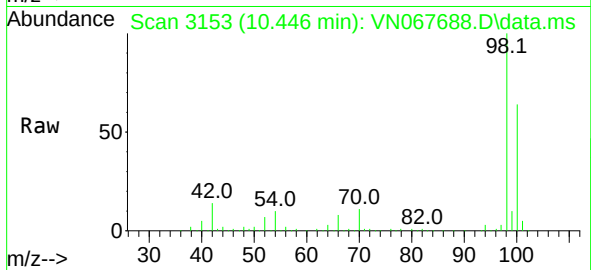




#63  
Toluene-d8  
Concen: 30.318 ug/l  
RT: 10.446 min Scan# 3153  
Delta R.T. 0.003 min  
Lab File: VN067688.D  
Acq: 9 Jul 2021 16:15

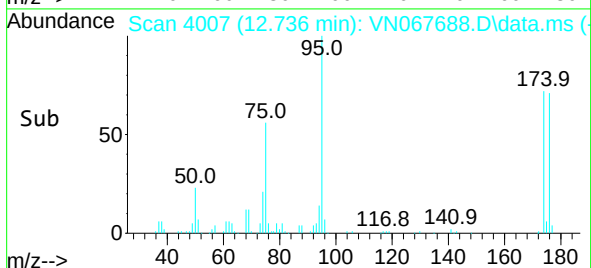
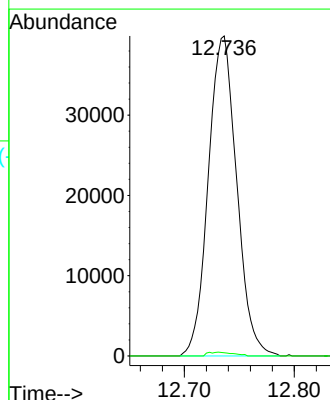
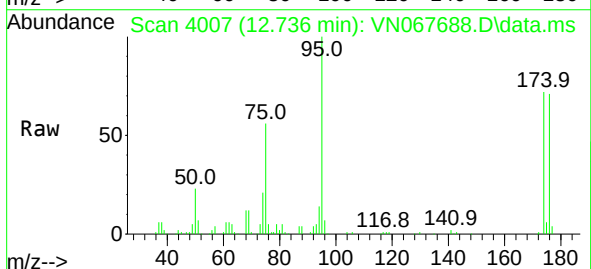
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JULY)

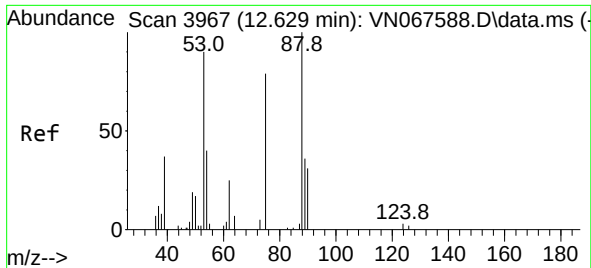
Tgt Ion: 98 Resp: 399603  
Ion Ratio Lower Upper  
98 100  
100 63.2 51.2 76.8



#72  
1,2,3-Trichloropropane  
Concen: 15.474 ug/l  
RT: 12.736 min Scan# 4007  
Delta R.T. -0.147 min  
Lab File: VN067688.D  
Acq: 9 Jul 2021 16:15

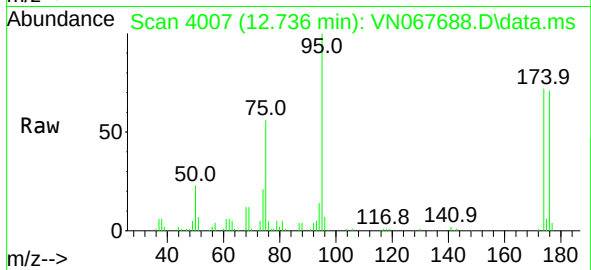
Tgt Ion: 75 Resp: 71557  
Ion Ratio Lower Upper  
75 100  
77 0.5 0.0 374.2





#77  
 t-1,4-Dichloro-2-butene  
 Concen: 47.198 ug/l  
 RT: 12.736 min Scan# 4007  
 Delta R.T. 0.107 min  
 Lab File: VN067688.D  
 Acq: 9 Jul 2021 16:15

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 002-35TH-AVE(JULY)



Tgt Ion: 75 Resp: 71557  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 55.2 165.6#  
 89 0.0 24.5 73.5#

