

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102320\  
 Data File : VN064291.D  
 Acq On : 23 Oct 2020 17:19  
 Operator : JC/MD  
 Sample : VN1023WBL01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1023WBL01

Quant Time: Oct 26 02:24:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102320W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Oct 26 01:30:11 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.15  | 128  | 44787    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.55  | 114  | 255417   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.38 | 117  | 224902   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 7.99   | 65    | 126739   | 32.42    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 91 - 110 | Recovery | =    | 108.07% |
| 60) 4-Bromofluorobenzene  | 12.38  | 95    | 112943   | 28.22    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 63 - 112 | Recovery | =    | 94.07%  |
| 63) Toluene-d8            | 10.06  | 98    | 302991   | 30.14    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 91 - 112 | Recovery | =    | 100.47% |

## Target Compounds

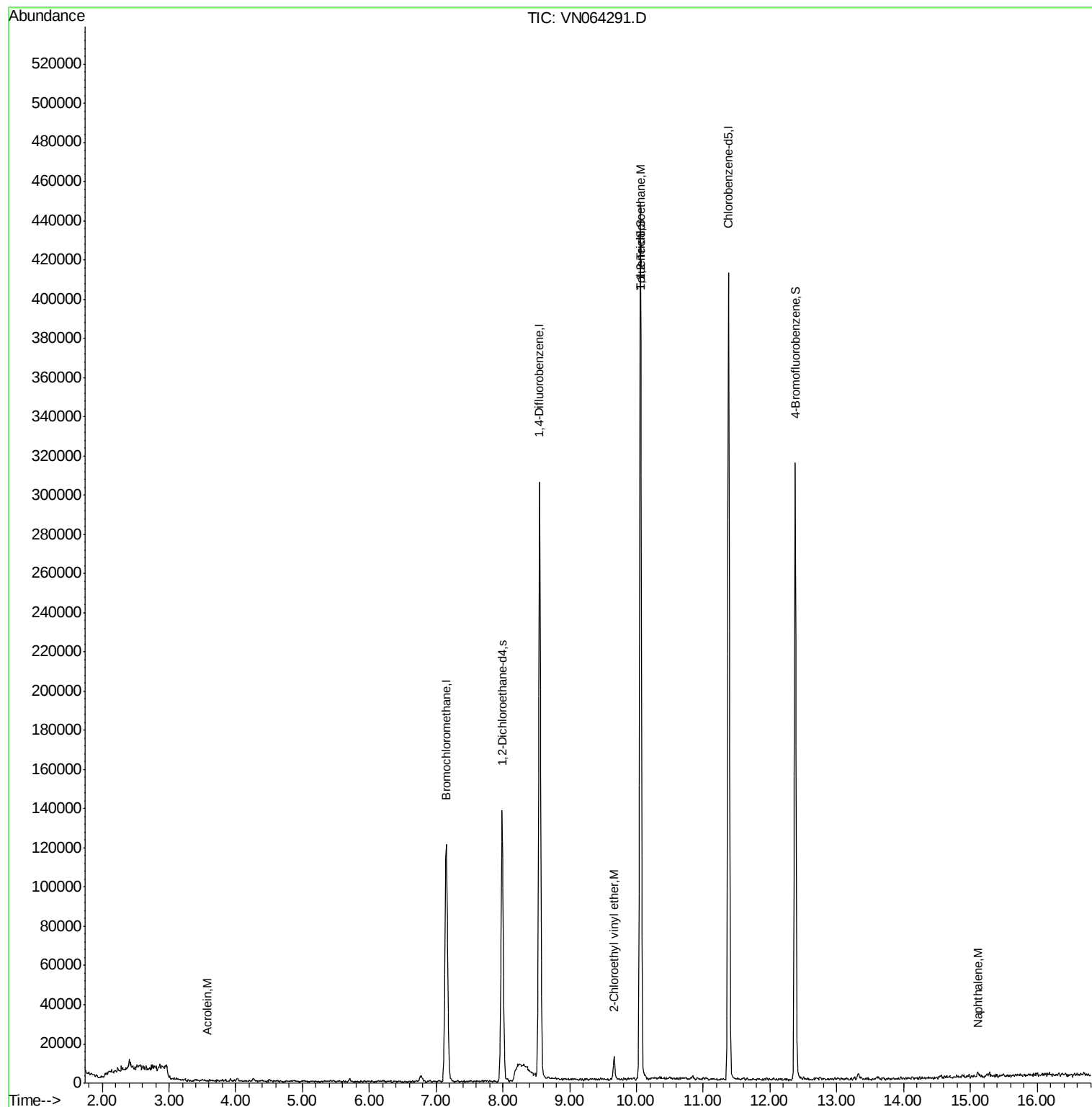
|                               |       |     |       |       | Ovalue |    |
|-------------------------------|-------|-----|-------|-------|--------|----|
| 13) Acrolein                  | 3.57  | 56  | 67    | 0.279 | ug/l # | 1  |
| 50) 1,1,2-Trichloroethane     | 10.07 | 97  | 11392 | 3.832 | ug/l # | 1  |
| 55) 2-Chloroethyl vinyl ether | 9.66  | 63  | 5582  | 2.512 | ug/l   | 97 |
| 91) Naphthalene               | 15.11 | 128 | 2402  | 0.243 | ug/l # | 70 |

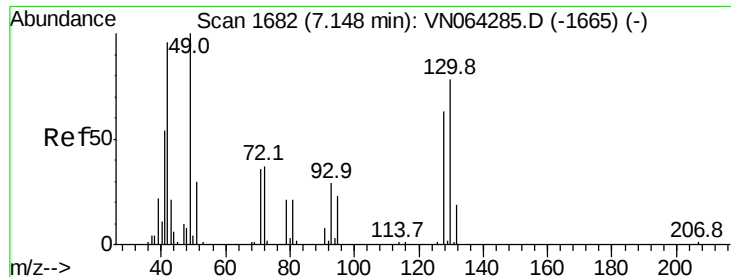
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN102320\  
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Sample : VN1023WBL01  
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ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1023WBL01

Quant Time: Oct 26 02:24:30 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N102320W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Mon Oct 26 01:30:11 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VN064291.D

Acq: 23 Oct 2020 17:19

Instrument :

MSVOA\_N

ClientSampleId :

VN1023WBL01

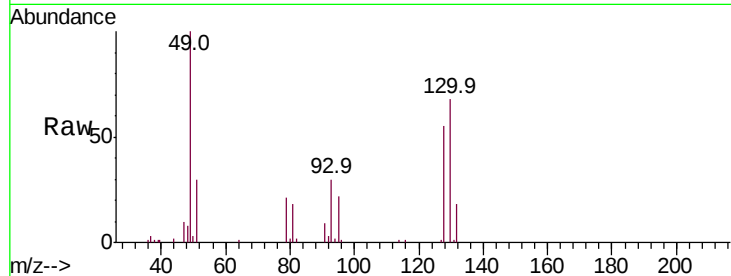
Tot Ion:128 Resp: 44787

Ion Ratio Lower Upper

128 100

49 180.0 0.0 445.0

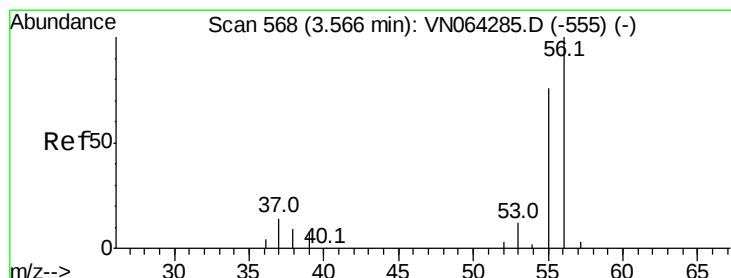
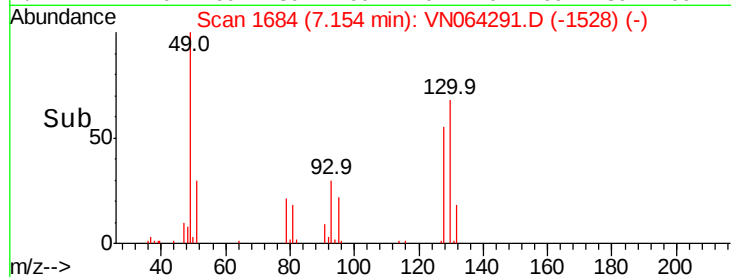
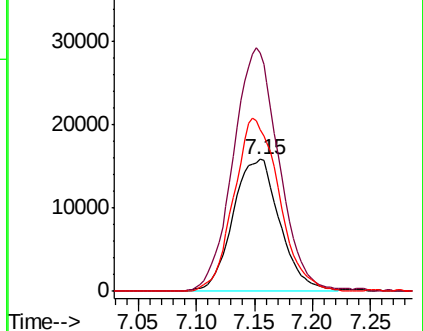
130 126.4 0.0 320.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#13

Acrolein

Concen: 0.279 ug/l

RT: 3.57 min Scan# 568

Delta R.T. -0.00 min

Lab File: VN064291.D

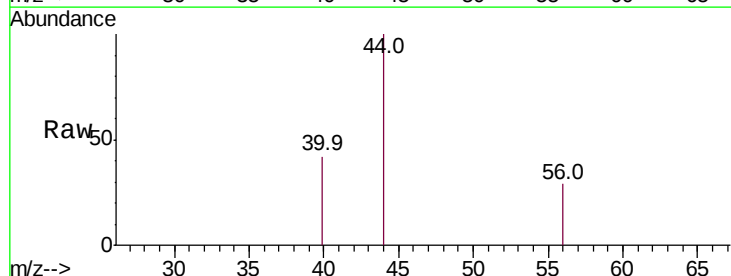
Acq: 23 Oct 2020 17:19

Tgt Ion: 56 Resp: 67

Ion Ratio Lower Upper

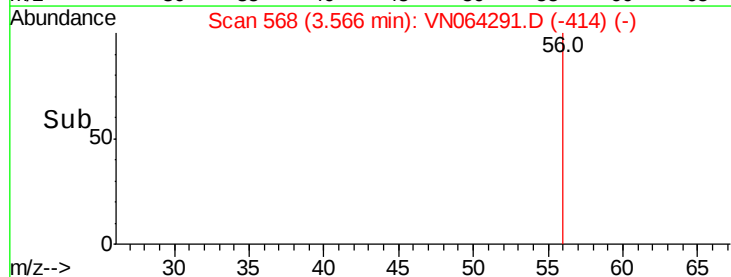
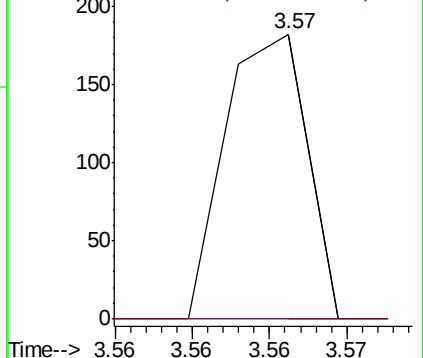
56 100

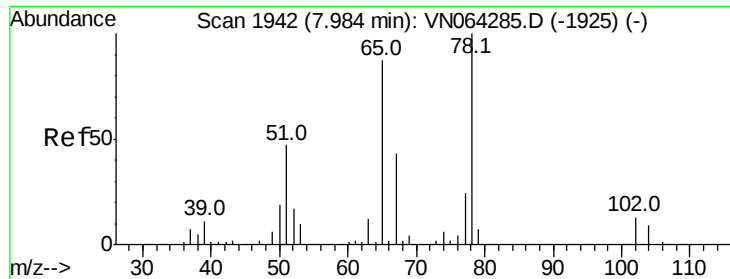
55 226.9 61.0 91.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

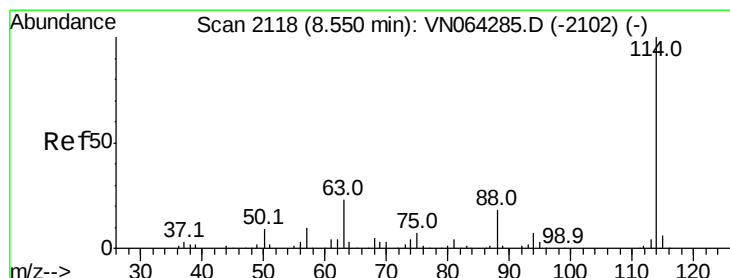
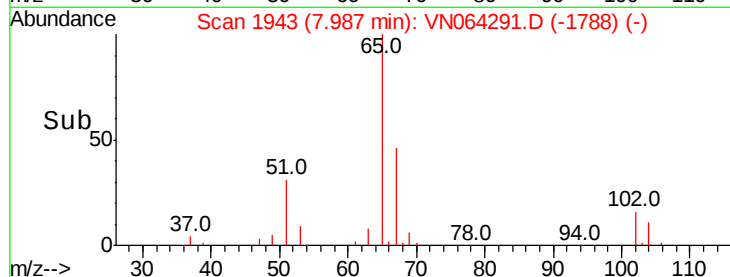
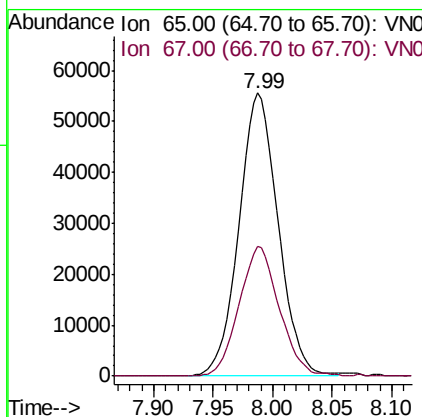
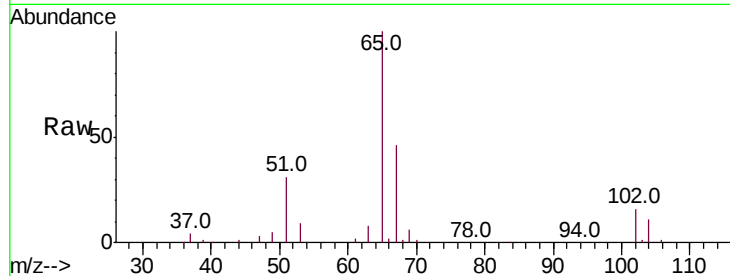




#27  
 1,2-Dichloroethane-d4  
 Concen: 32.420 ug/l  
 RT: 7.99 min Scan# 1943  
 Delta R.T. -0.00 min  
 Lab File: VN064291.D  
 Acq: 23 Oct 2020 17:19

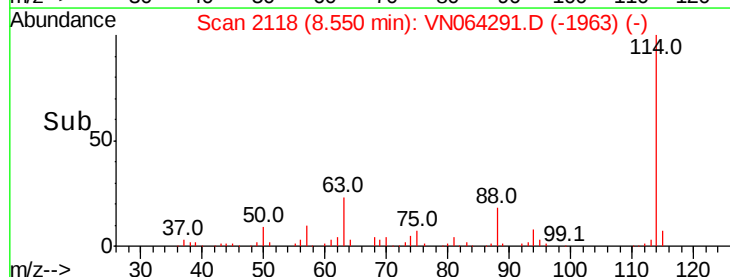
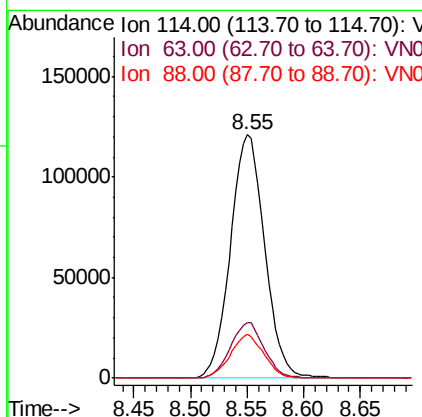
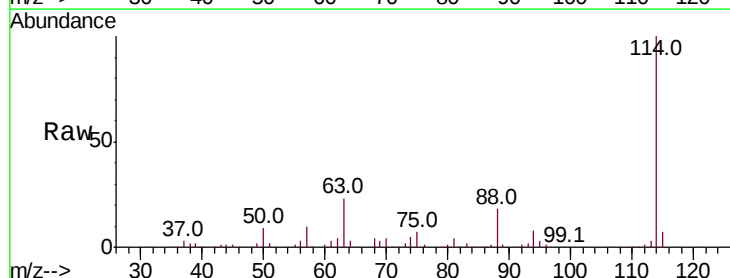
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1023WBL01

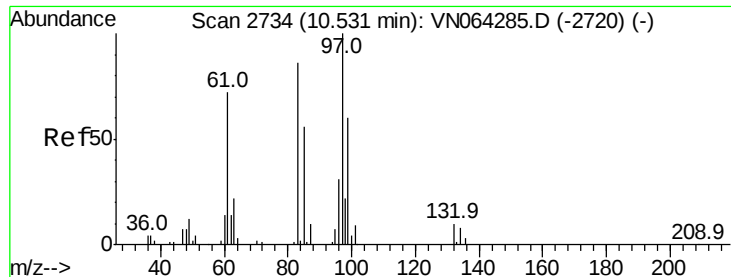
Tot Ion: 65 Resp: 126739  
 Ion Ratio Lower Upper  
 65 100  
 67 46.7 38.4 57.6



#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 8.55 min Scan# 2118  
 Delta R.T. -0.00 min  
 Lab File: VN064291.D  
 Acq: 23 Oct 2020 17:19

Tgt Ion: 114 Resp: 255417  
 Ion Ratio Lower Upper  
 114 100  
 63 22.6 17.8 26.8  
 88 17.5 13.8 20.8

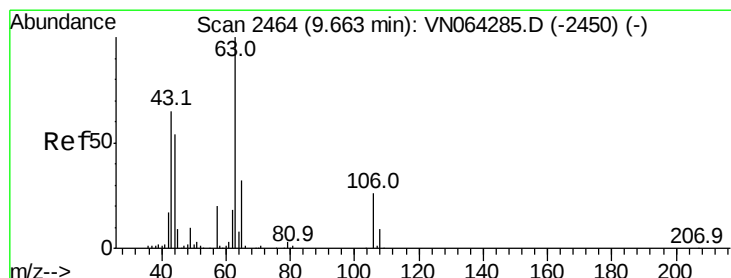
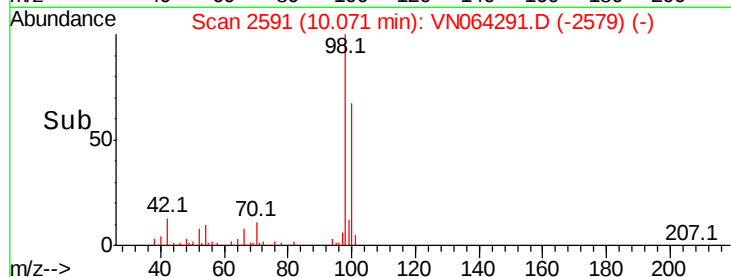
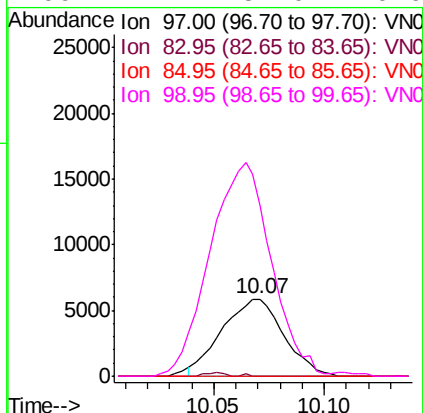
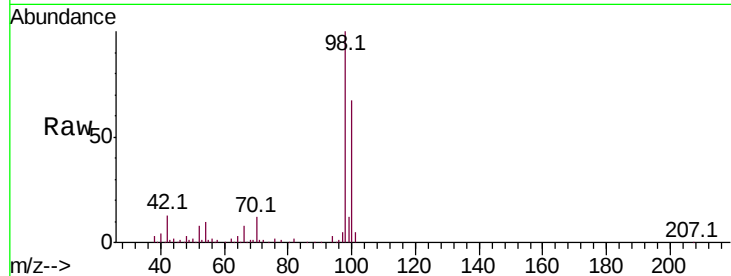




#50  
 1,1,2-Trichloroethane  
 Concen: 3.832 ug/l  
 RT: 10.07 min Scan# 2591  
 Delta R.T. -0.46 min  
 Lab File: VN064291.D  
 Acq: 23 Oct 2020 17:19

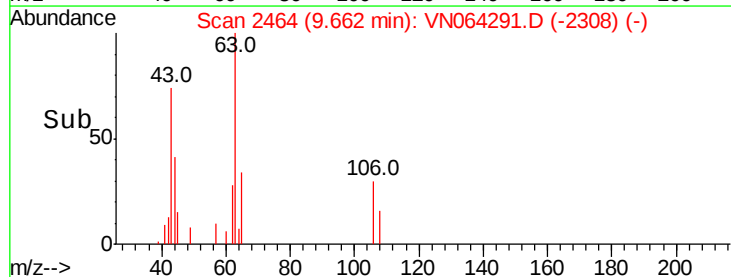
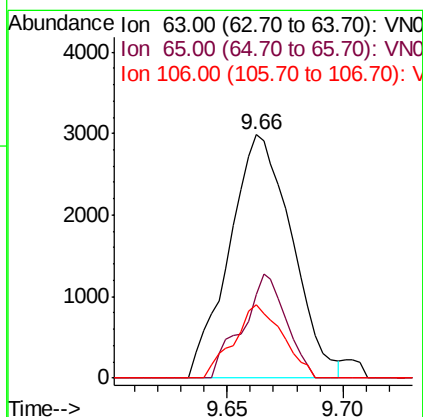
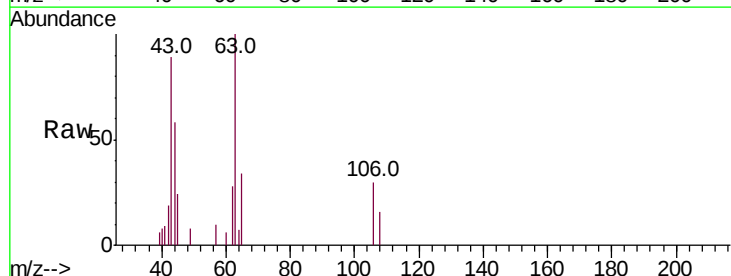
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1023WBL01

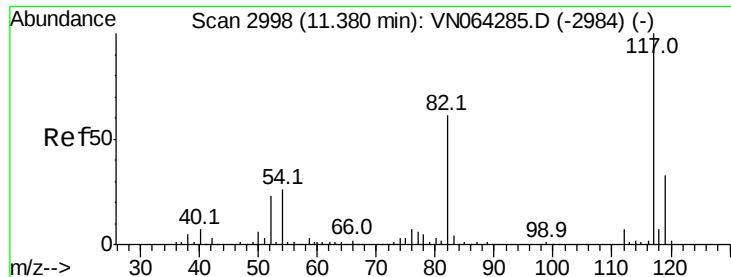
Tot Ion: 97 Resp: 11392  
 Ion Ratio Lower Upper  
 97 100  
 83 0.0 68.9 103.3#  
 85 0.0 37.8 56.8#  
 99 217.7 51.0 76.6#



#55  
 2-Chloroethyl vinyl ether  
 Concen: 2.512 ug/l  
 RT: 9.66 min Scan# 2464  
 Delta R.T. 0.00 min  
 Lab File: VN064291.D  
 Acq: 23 Oct 2020 17:19

Tgt Ion: 63 Resp: 5582  
 Ion Ratio Lower Upper  
 63 100  
 65 30.0 25.2 37.8  
 106 23.5 20.6 31.0

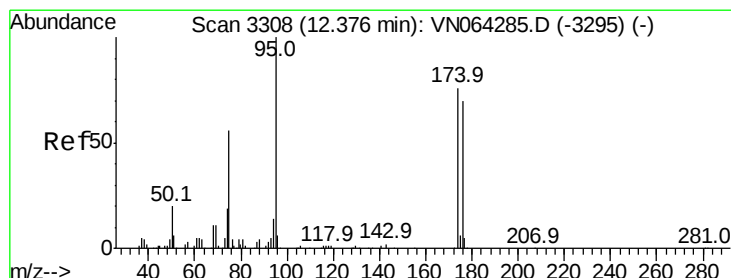
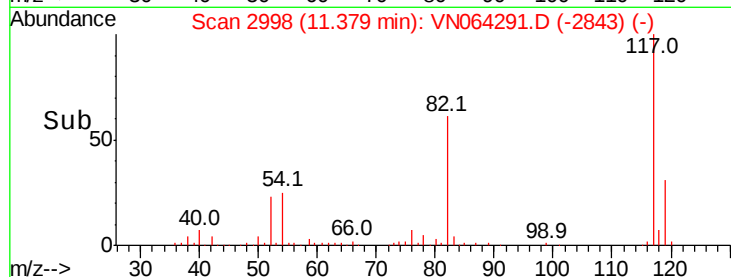
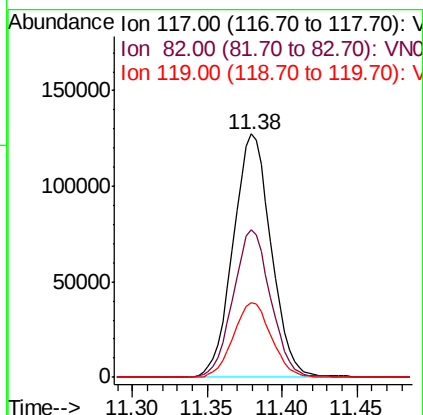
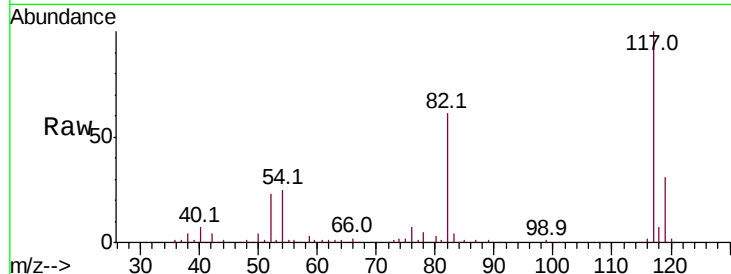




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. -0.00 min  
Lab File: VN064291.D  
Acq: 23 Oct 2020 17:19

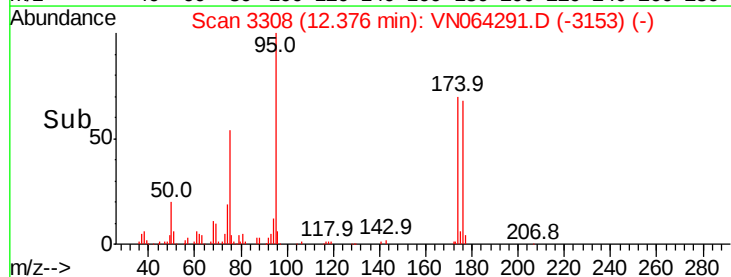
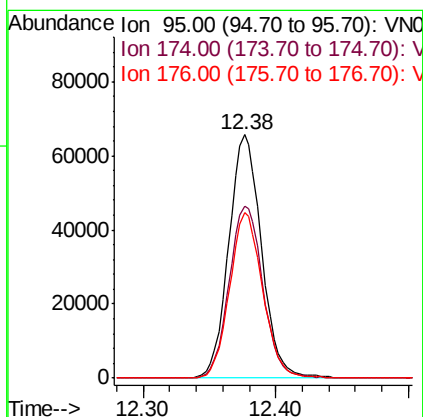
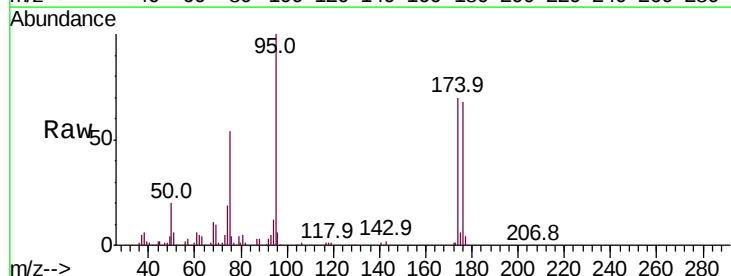
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1023WBL01

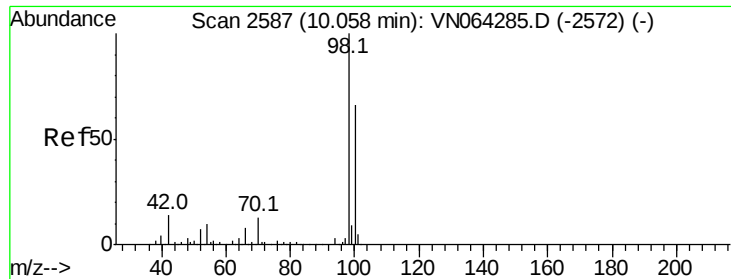
Tot Ion:117 Resp: 224902  
Ion Ratio Lower Upper  
117 100  
82 60.1 47.0 70.6  
119 30.9 24.6 37.0



#60  
4-Bromofluorobenzene  
Concen: 28.215 ug/l  
RT: 12.38 min Scan# 3308  
Delta R.T. -0.00 min  
Lab File: VN064291.D  
Acq: 23 Oct 2020 17:19

Tgt Ion: 95 Resp: 112943  
Ion Ratio Lower Upper  
95 100  
174 72.6 57.9 86.9  
176 68.4 56.7 85.1





#63

Toluene-d8

Concen: 30.141 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064291.D

Acq: 23 Oct 2020 17:19

Instrument :

MSVOA\_N

ClientSampleId :

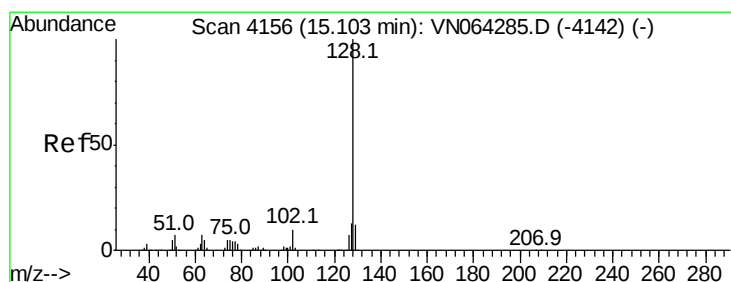
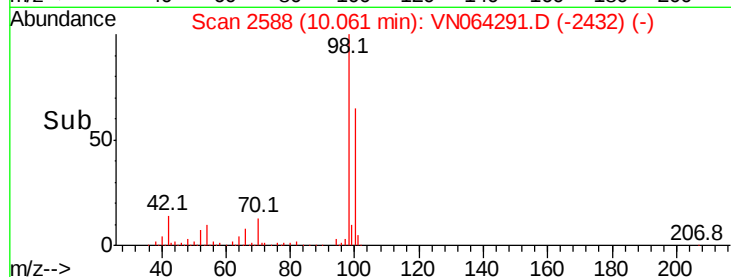
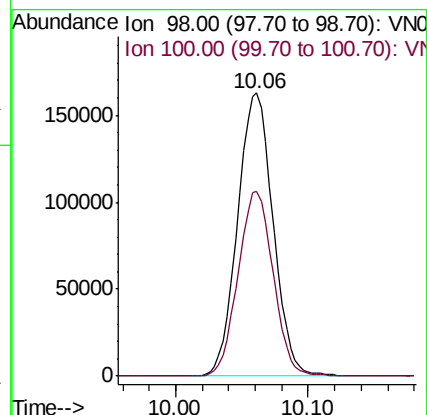
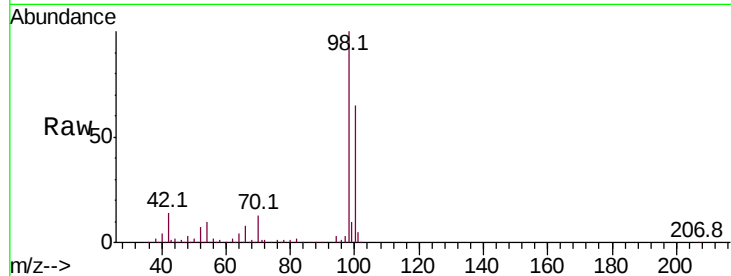
VN1023WBL01

Tot Ion: 98 Resp: 302991

Ion Ratio Lower Upper

98 100

100 64.6 51.7 77.5



#91

Naphthalene

Concen: 0.243 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN064291.D

Acq: 23 Oct 2020 17:19

Tgt Ion:128 Resp: 2402

Ion Ratio Lower Upper

128 100

127 0.0 9.9 14.9#

129 0.0 8.3 12.5#

