

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121418\  
 Data File : VN052880.D  
 Acq On : 14 Dec 2018 11:15  
 Operator : MD\SY  
 Sample : J6401-01 10X  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 5 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 15 02:51:59 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Nov 27 00:48:33 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.20  | 128  | 167042   | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.59  | 114  | 947105   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 793461   | 30.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 27) 1,2-Dichloroethane-d4   | 8.03   | 65    | 325588   | 28.61    | ug/l | 0.00   |
| Spiked Amount               | 30.000 | Range | 50 - 169 | Recovery | =    | 95.37% |
| 60) 4-Bromofluorobenzene    | 12.40  | 95    | 336386   | 27.73    | ug/l | 0.00   |
| Spiked Amount               | 30.000 | Range | 56 - 143 | Recovery | =    | 92.43% |
| 63) Toluene-d8              | 10.09  | 98    | 1084931  | 29.49    | ug/l | 0.00   |
| Spiked Amount               | 30.000 | Range | 66 - 137 | Recovery | =    | 98.30% |

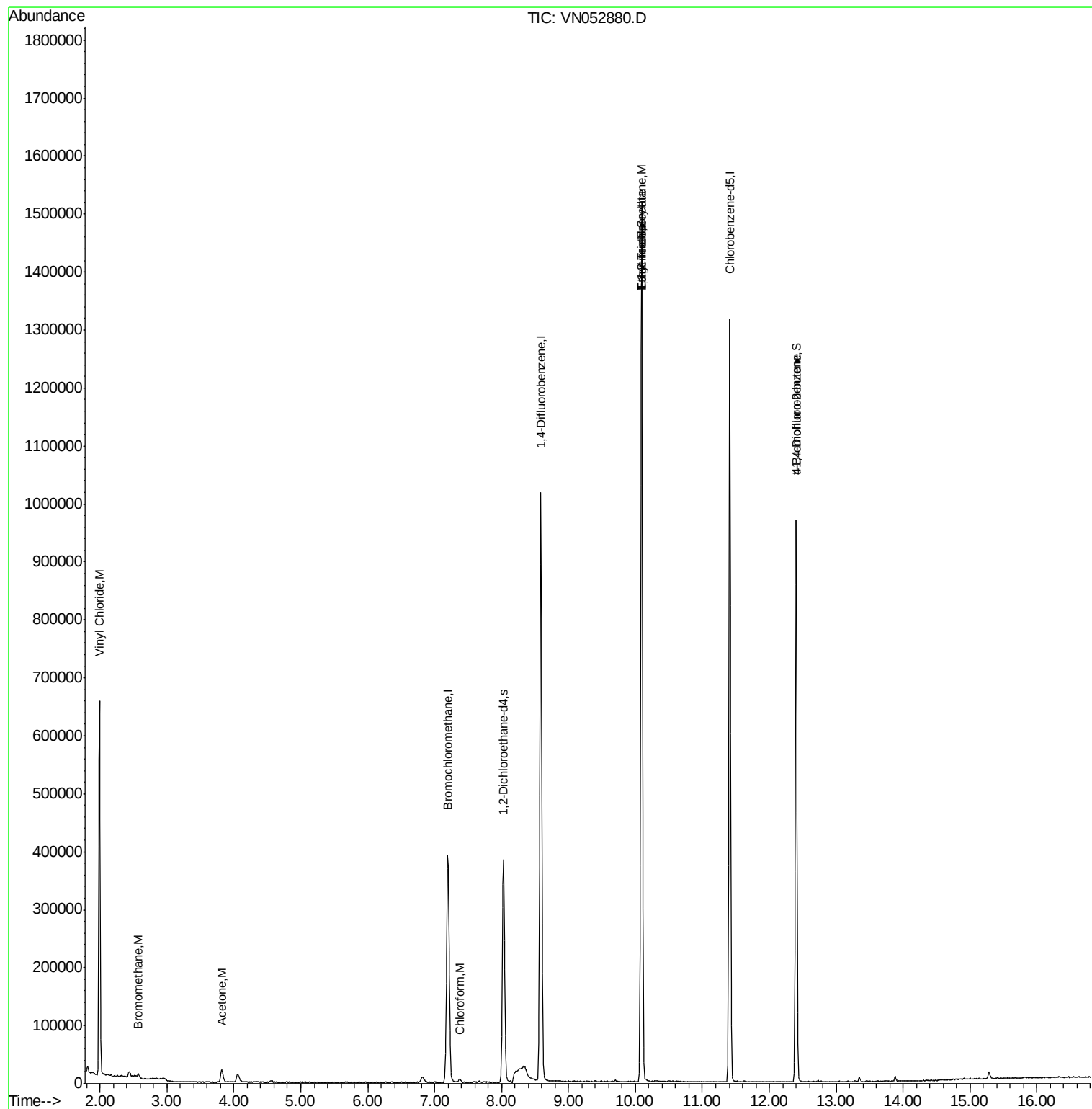
| Target Compounds            |       |    |        |        |        | Ovalue |
|-----------------------------|-------|----|--------|--------|--------|--------|
| 4) Vinyl Chloride           | 1.99  | 62 | 8144   | 0.640  | ug/l # | 44     |
| 5) Bromomethane             | 2.58  | 94 | 3935   | 0.542  | ug/l   | 95     |
| 15) Acetone                 | 3.82  | 58 | 12343  | 14.054 | ug/l   | 80     |
| 25) Chloroform              | 7.37  | 83 | 6207   | 0.329  | ug/l # | 78     |
| 50) 1,1,2-Trichloroethane   | 10.10 | 97 | 32392  | 3.628  | ug/l # | 1      |
| 51) Ethyl methacrylate      | 10.09 | 69 | 2898   | 0.258  | ug/l   | 74     |
| 77) t-1,4-Dichloro-2-butene | 12.40 | 75 | 160422 | 59.959 | ug/l # | 11     |

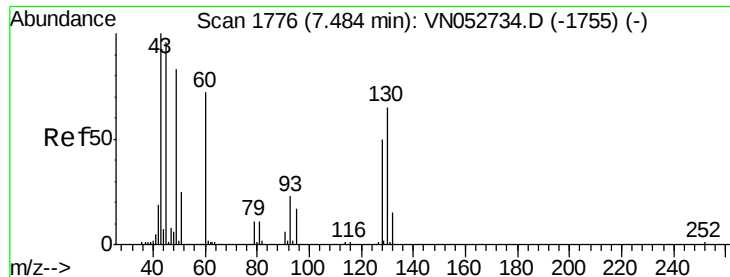
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121418\  
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Sample : J6401-01 10X  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 5 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Dec 15 02:51:59 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Tue Nov 27 00:48:33 2018  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052880.D

Acq: 14 Dec 2018 11:15

Instrument :  
MSVOA\_N  
ClientSampled :

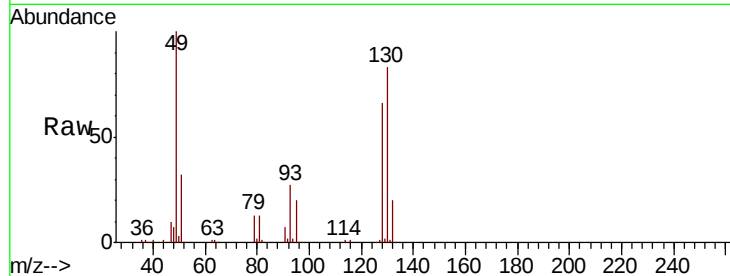
Tot Ion:128 Resp: 167042

Ion Ratio Lower Upper

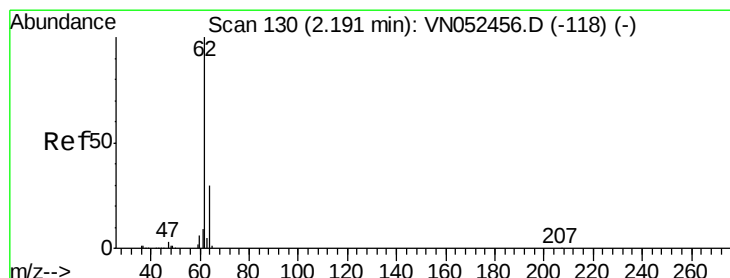
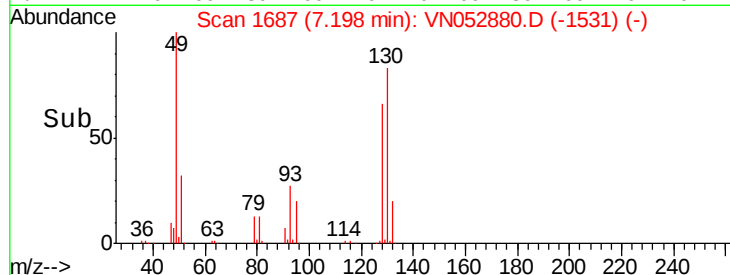
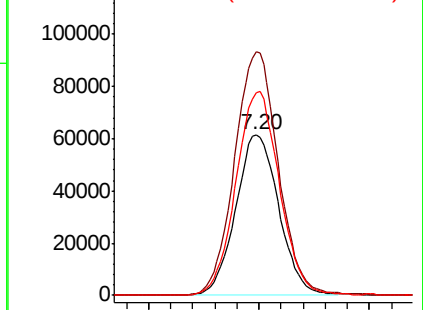
128 100

49 153.6 0.0 431.8

130 128.1 0.0 317.0



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 49.00 (48.70 to 49.70): VN  
Ion 130.00 (129.70 to 130.70): V



#4

Vinyl Chloride

Concen: 0.640 ug/l

RT: 1.99 min Scan# 68

Delta R.T. -0.20 min

Lab File: VN052880.D

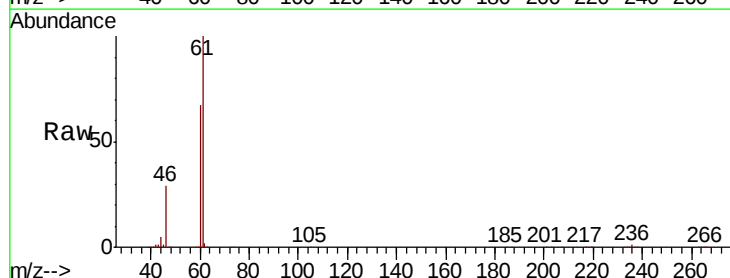
Acq: 14 Dec 2018 11:15

Tgt Ion: 62 Resp: 8144

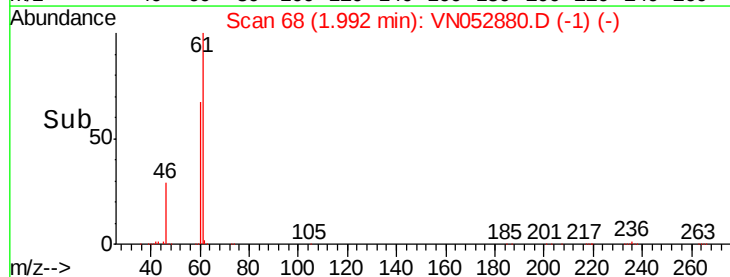
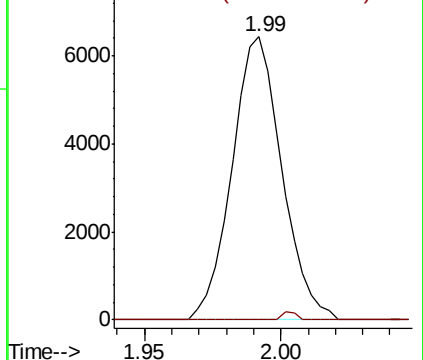
Ion Ratio Lower Upper

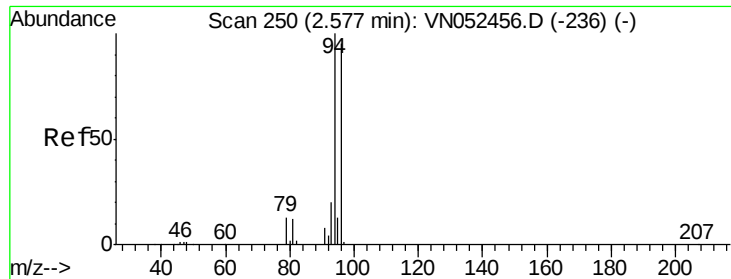
62 100

64 0.0 24.2 36.4#



Abundance Ion 62.00 (61.70 to 62.70): VN  
Ion 64.00 (63.70 to 64.70): VN





#5

Bromomethane

Concen: 0.542 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN052880.D

Acq: 14 Dec 2018 11:15

Instrument :

MSVOA\_N

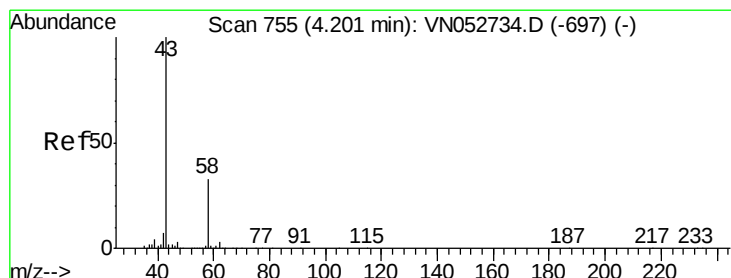
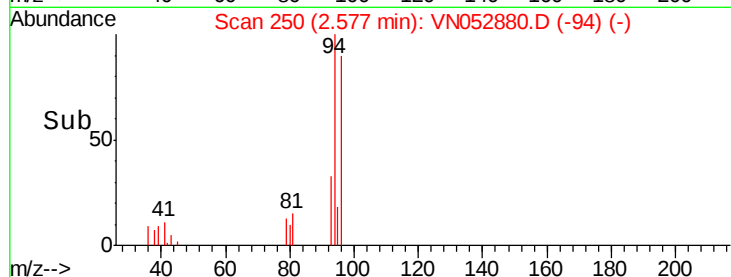
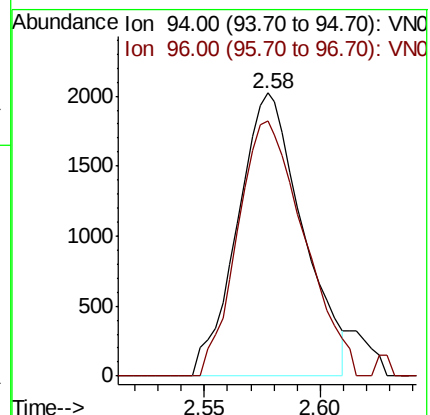
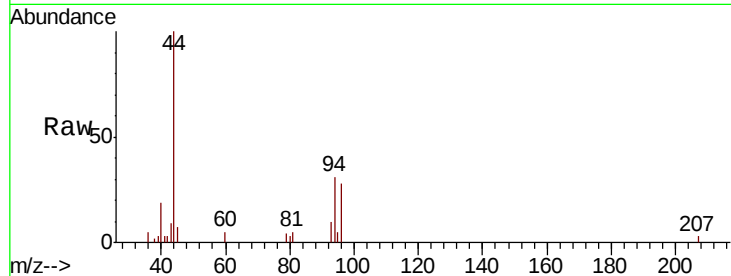
ClientSampled :

Tot Ion: 94 Resp: 3935

Ion Ratio Lower Upper

94 100

96 90.2 76.2 114.2



#15

Acetone

Concen: 14.054 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN052880.D

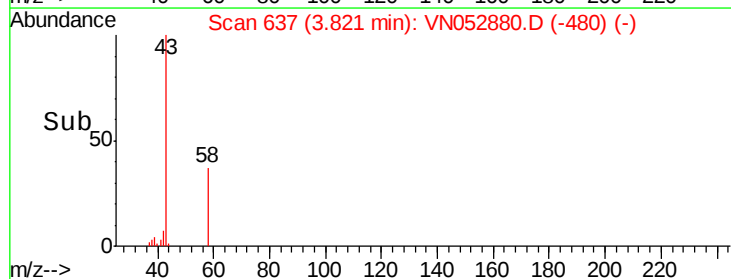
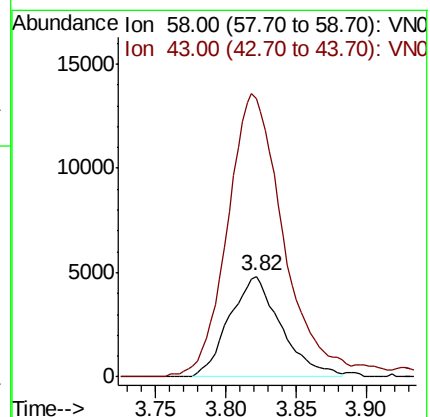
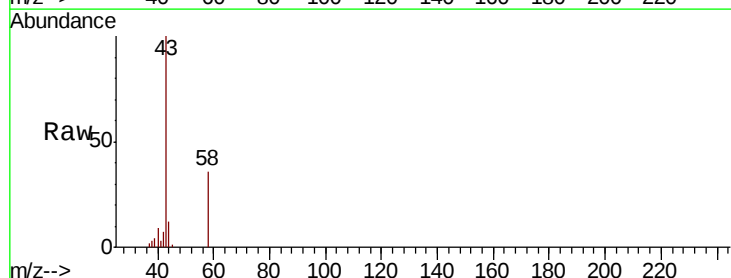
Acq: 14 Dec 2018 11:15

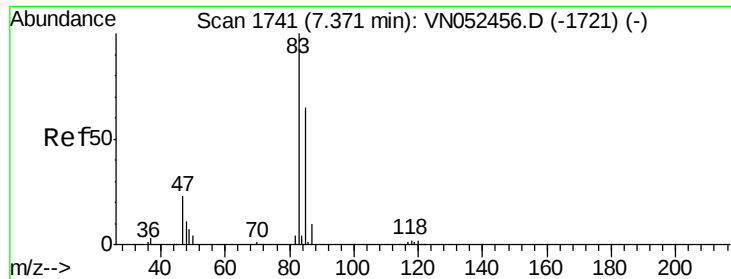
Tgt Ion: 58 Resp: 12343

Ion Ratio Lower Upper

58 100

43 265.7 243.6 365.4

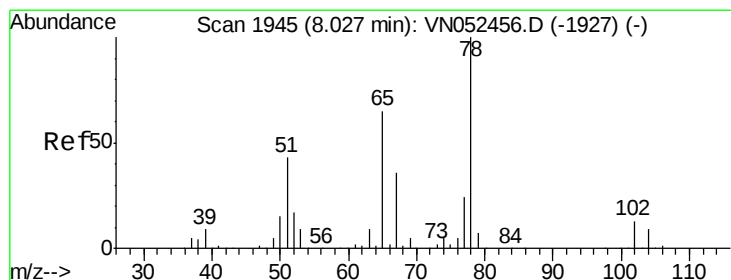
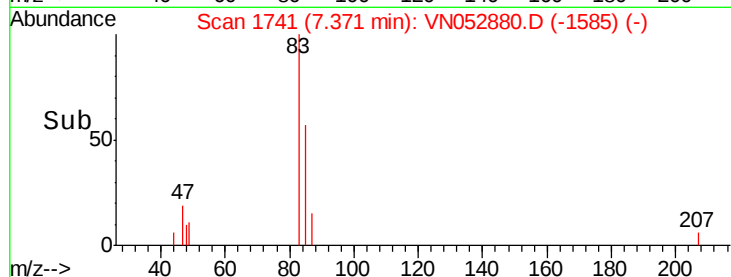
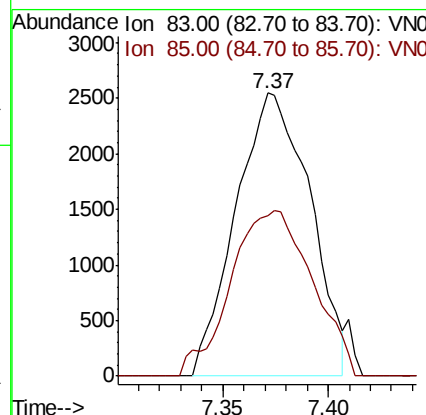
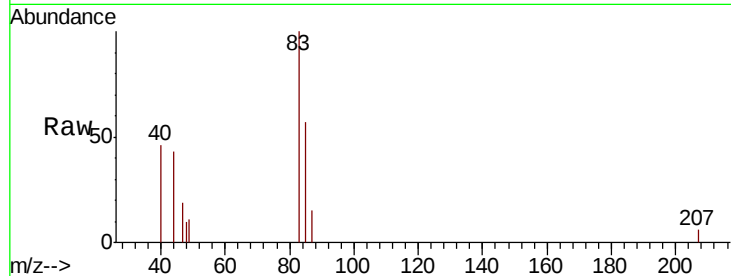




#25  
Chloroform  
Concen: 0.329 ug/l  
RT: 7.37 min Scan# 1741  
Delta R.T. 0.00 min  
Lab File: VN052880.D  
Acq: 14 Dec 2018 11:15

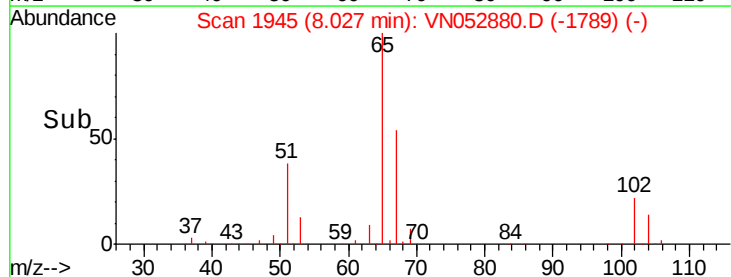
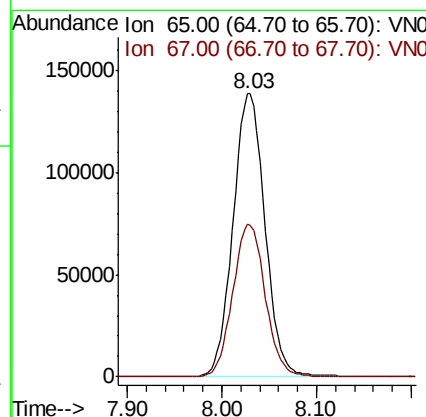
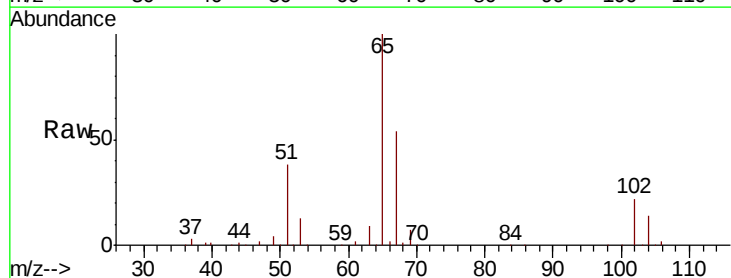
Instrument :  
MSVOA\_N  
ClientSampled :

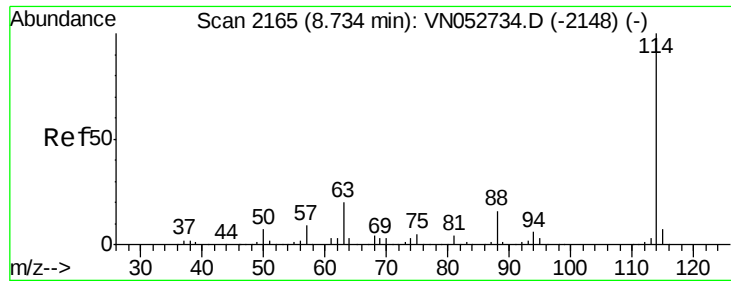
Tot Ion: 83 Resp: 6207  
Ion Ratio Lower Upper  
83 100  
85 47.4 51.7 77.5#



#27  
1,2-Dichloroethane-d4  
Concen: Below ug/l  
RT: 8.03 min Scan# 1945  
Delta R.T. 0.00 min  
Lab File: VN052880.D  
Acq: 14 Dec 2018 11:15

Tgt Ion: 65 Resp: 325588  
Ion Ratio Lower Upper  
65 100  
67 54.6 44.6 66.8

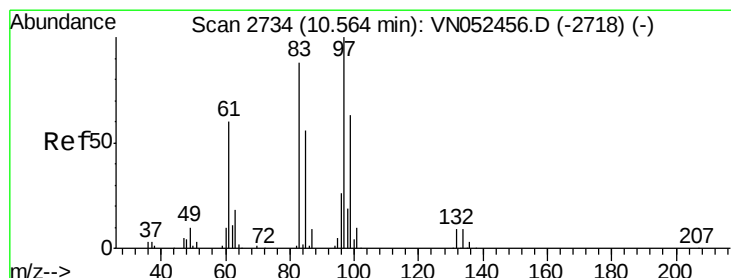
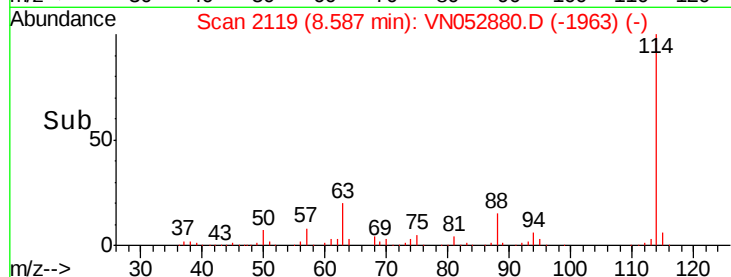
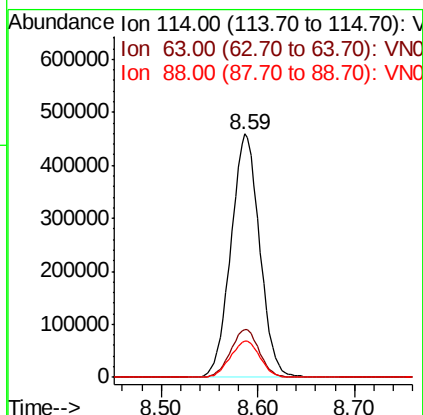
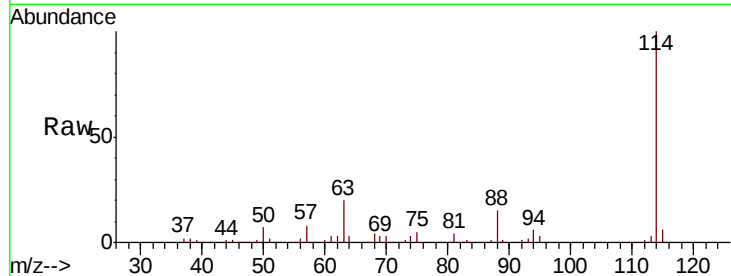




#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN052880.D  
 Acq: 14 Dec 2018 11:15

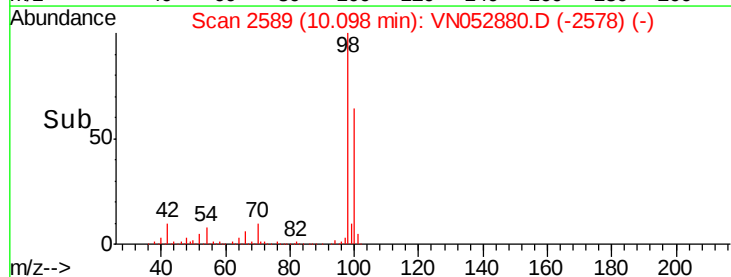
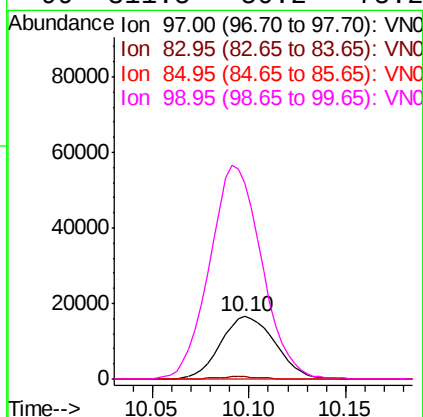
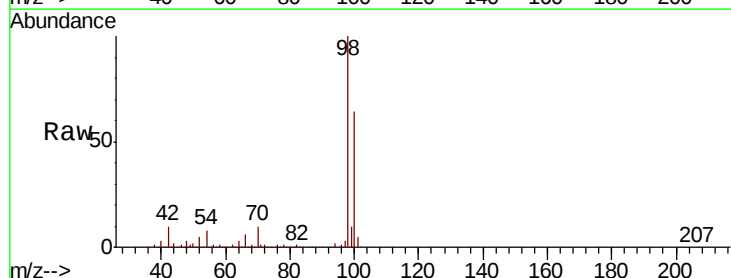
Instrument :  
 MSVOA\_N  
 ClientSampleId :

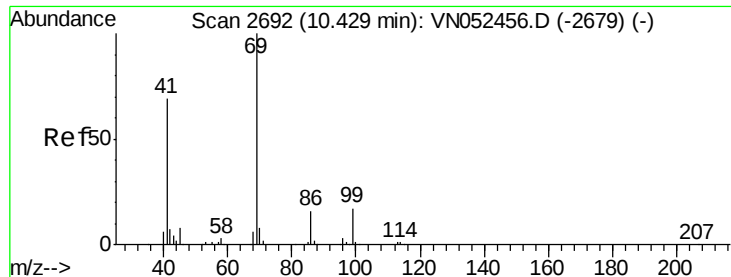
Tot Ion:114 Resp: 947105  
 Ion Ratio Lower Upper  
 114 100  
 63 19.7 16.9 25.3  
 88 15.4 12.8 19.2



#50  
 1,1,2-Trichloroethane  
 Concen: 3.628 ug/l  
 RT: 10.10 min Scan# 2589  
 Delta R.T. -0.47 min  
 Lab File: VN052880.D  
 Acq: 14 Dec 2018 11:15

Tgt Ion: 97 Resp: 32392  
 Ion Ratio Lower Upper  
 97 100  
 83 3.4 70.4 105.6#  
 85 0.0 45.0 67.6#  
 99 311.5 50.2 75.2#





#51

Ethyl methacrylate

Concen: 0.258 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.33 min

Lab File: VN052880.D

Acq: 14 Dec 2018 11:15

Instrument :

MSVOA\_N

ClientSampleId :

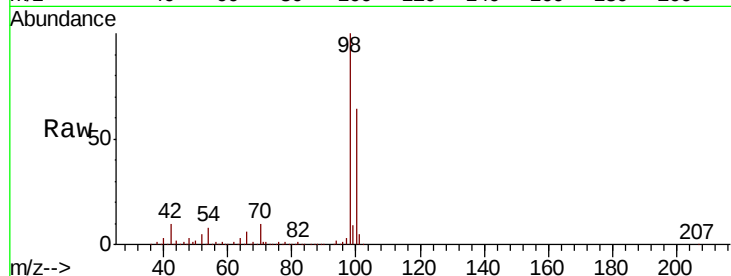
Tot Ion: 69 Resp: 2898

Ion Ratio Lower Upper

69 100

41 92.4 34.4 103.3

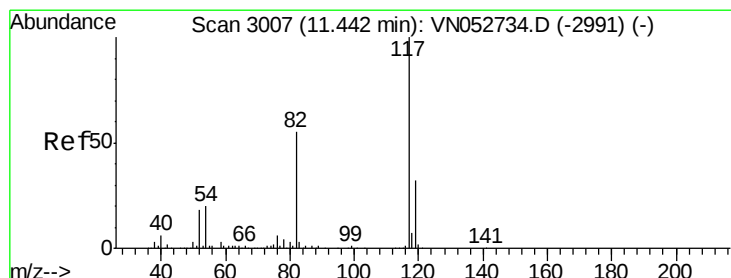
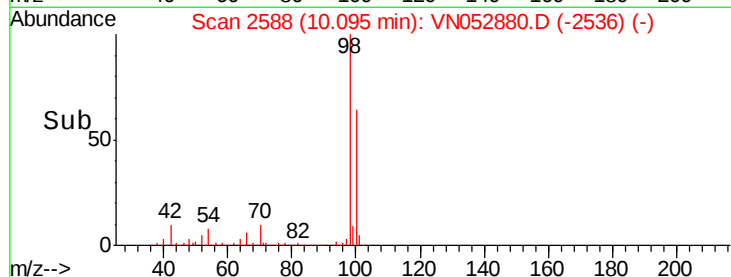
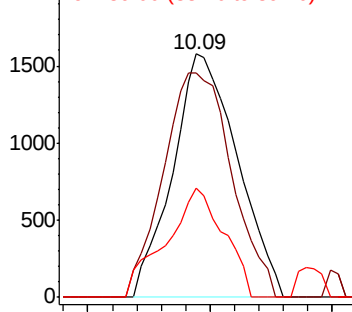
39 44.7 16.4 49.2



Abundance Ion 69.00 (68.70 to 69.70): VN052456.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN052456.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN052456.D (-2679) (-)



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN052880.D

Acq: 14 Dec 2018 11:15

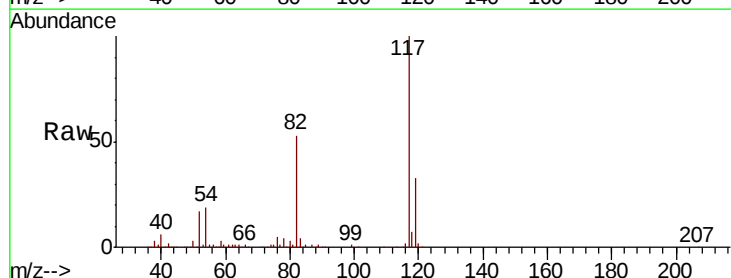
Tgt Ion: 117 Resp: 793461

Ion Ratio Lower Upper

117 100

82 53.7 44.2 66.2

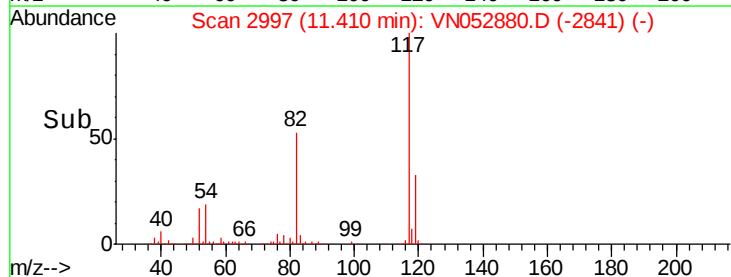
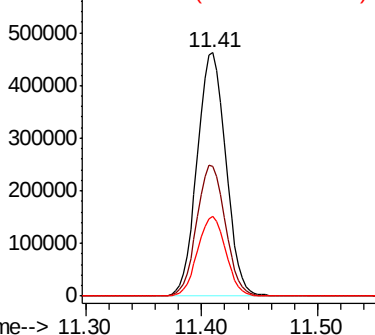
119 32.5 25.4 38.2

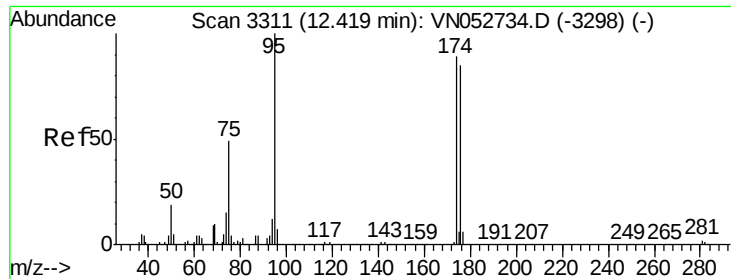


Abundance Ion 117.00 (116.70 to 117.70): VN052734.D (-2991) (-)

Ion 82.00 (81.70 to 82.70): VN052734.D (-2991) (-)

Ion 119.00 (118.70 to 119.70): VN052734.D (-2991) (-)





#60

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052880.D

Acq: 14 Dec 2018 11:15

Instrument :

MSVOA\_N

ClientSampled :

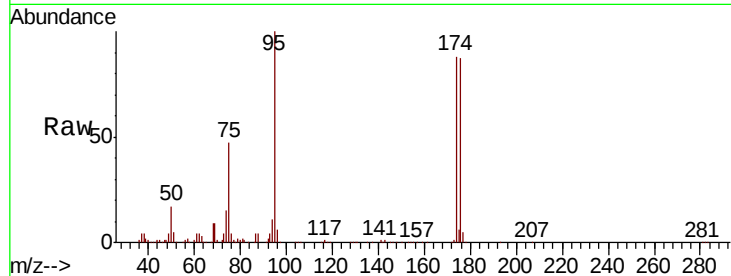
Tot Ion: 95 Resp: 336386

Ion Ratio Lower Upper

95 100

174 89.9 67.9 101.9

176 86.7 66.4 99.6



Abundance Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

250000

200000

150000

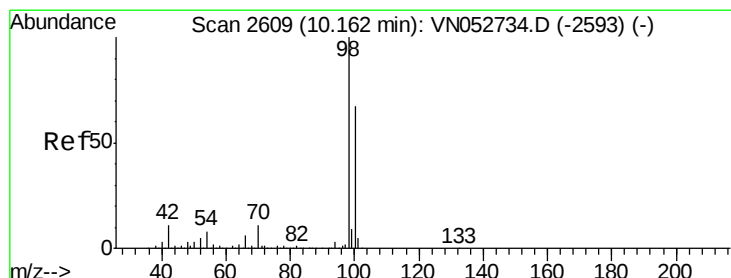
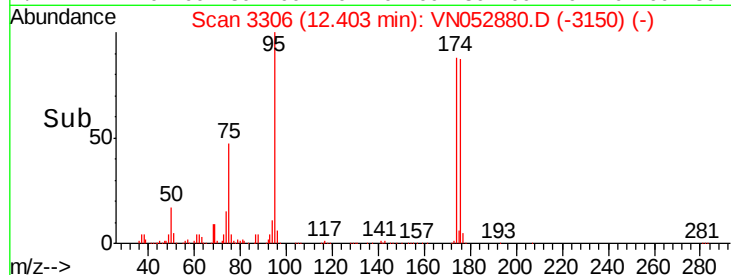
100000

50000

0

12.35 12.40 12.45

Time-->



#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052880.D

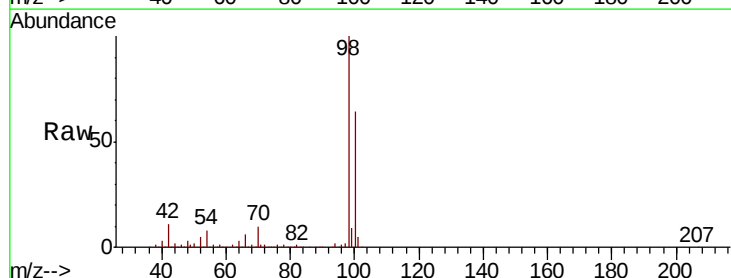
Acq: 14 Dec 2018 11:15

Tgt Ion: 98 Resp: 1084931

Ion Ratio Lower Upper

98 100

100 63.8 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): V

600000

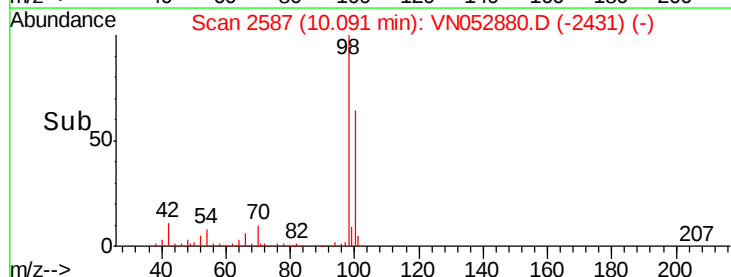
400000

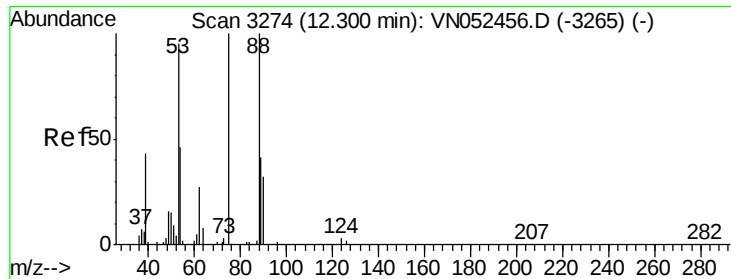
200000

0

10.00 10.10 10.20

Time-->





#77  
 t-1,4-Dichloro-2-butene  
 Concen: 59.959 ug/l  
 RT: 12.40 min Scan# 3306  
 Delta R.T. 0.10 min  
 Lab File: VN052880.D  
 Acq: 14 Dec 2018 11:15

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tot Ion: 75 Resp: 160422  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 48.5 145.6#  
 89 0.0 21.7 65.1#

