

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081420\  
 Data File : VV018006.D  
 Acq On : 14 Aug 2020 18:59  
 Operator : SY/MD  
 Sample : L3665-10DL 5X  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 F4L71DL

Quant Time: Aug 17 01:38:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM081120WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Aug 17 01:31:40 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 243801   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 241154   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 113592   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 61698    | 33.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 66.34%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 57286    | 37.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 75.28%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 97836    | 27.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 55.00%# |
| 21) 2-Butanone-d5              | 3.90    | 46    | 120579   | 98.97    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 98.97%  |
| 24) Chloroform-d               | 4.38    | 84    | 143489   | 42.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 84.74%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 98327    | 44.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.42%  |
| 32) Benzene-d6                 | 5.07    | 84    | 272496   | 41.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 82.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 94860    | 43.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 87.32%  |
| 41) Toluene-d8                 | 7.34    | 98    | 233409   | 39.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 78.10%# |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 39284    | 39.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 79.72%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 58268    | 83.57    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 83.57%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 127886   | 45.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 90.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 110401   | 49.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.76%  |

## Target Compounds

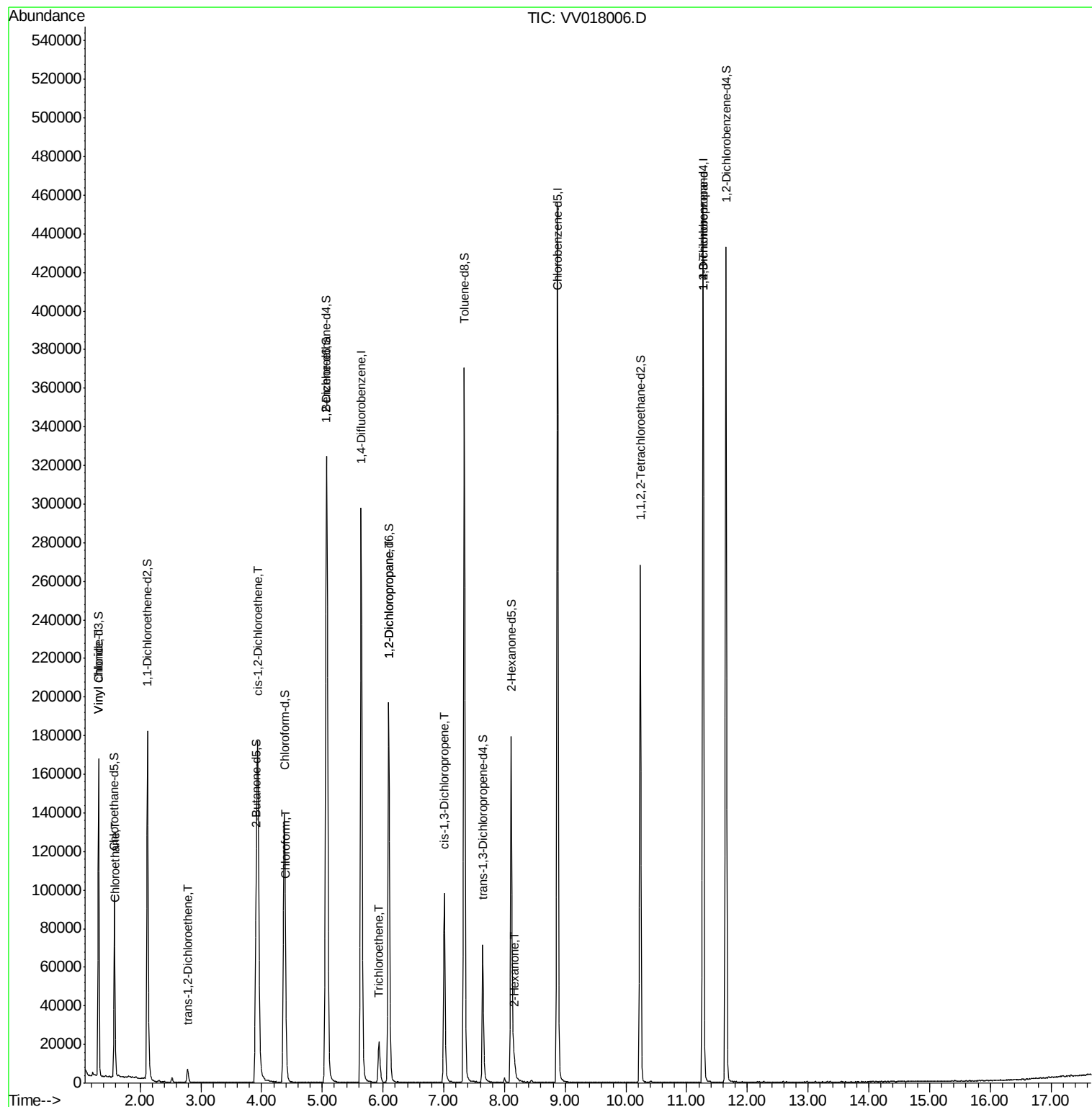
| Target Compounds             | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|------------------------------|-------|------|----------|--------|--------|--------|
| 5) Vinyl chloride            | 1.32  | 62   | 43354    | 20.013 | ug/L   | 96     |
| 8) Chloroethane              | 1.59  | 64   | 4053     | 2.931  | ug/L   | 94     |
| 17) trans-1,2-Dichloroethene | 2.78  | 96   | 2501     | 1.488  | ug/L   | 92     |
| 20) cis-1,2-Dichloroethene   | 3.94  | 96   | 84273    | 45.618 | ug/L   | 100    |
| 25) Chloroform               | 4.40  | 83   | 4528     | 1.313  | ug/L   | 88     |
| 34) Trichloroethene          | 5.94  | 95   | 3676     | 1.864  | ug/L   | 98     |
| 37) 1,2-Dichloropropane      | 6.09  | 63   | 10436    | 5.129  | ug/L # | 87     |
| 39) cis-1,3-Dichloropropene  | 7.01  | 75   | 2367     | 0.821  | ug/L # | 56     |
| 48) 2-Hexanone               | 8.16  | 43   | 5726     | 2.670  | ug/L # | 96     |
| 59) 1,2,3-Trichloropropane   | 11.27 | 75   | 13333    | 5.306  | ug/L   | 93     |

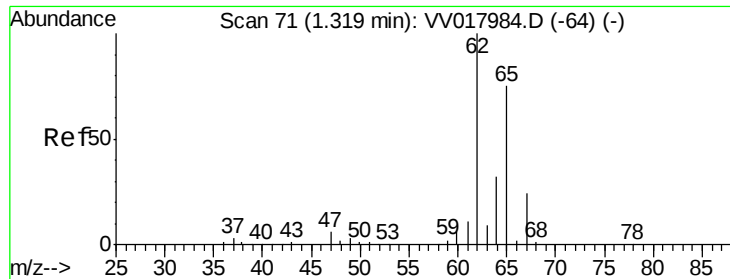
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L3665-10DL 5X  
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ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
F4L71DL

Quant Time: Aug 17 01:38:54 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM081120WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Aug 17 01:31:40 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 20.013 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV018006.D

Acq: 14 Aug 2020 18:59

Instrument :

MSVOA\_V

ClientSampleId :

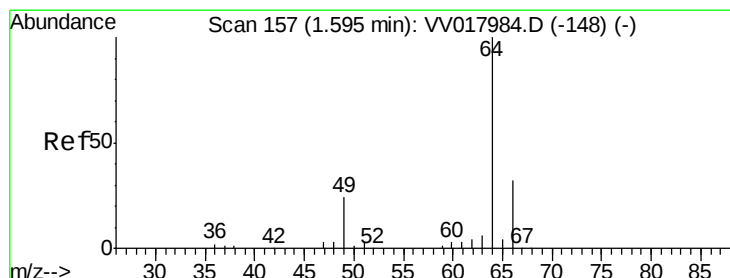
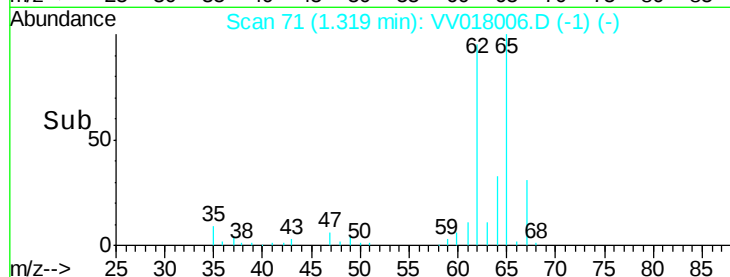
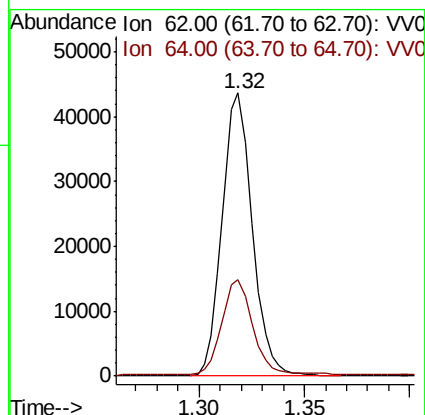
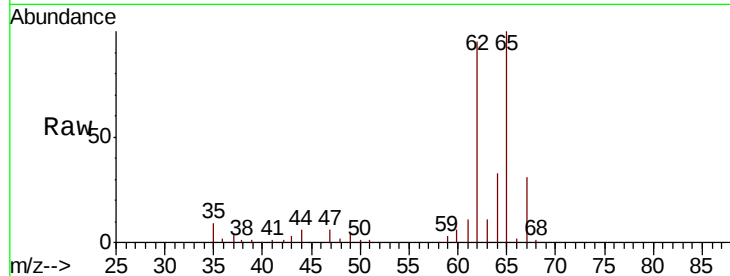
F4L71DL

Tot Ion: 62 Resp: 43354

Ion Ratio Lower Upper

62 100

64 34.2 22.4 41.6



#8

Chloroethane

Concen: 2.931 ug/L

RT: 1.59 min Scan# 156

Delta R.T. -0.00 min

Lab File: VV018006.D

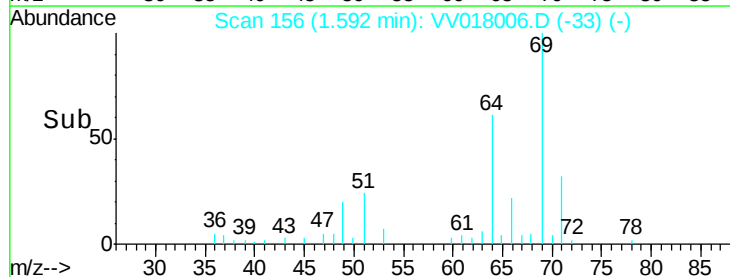
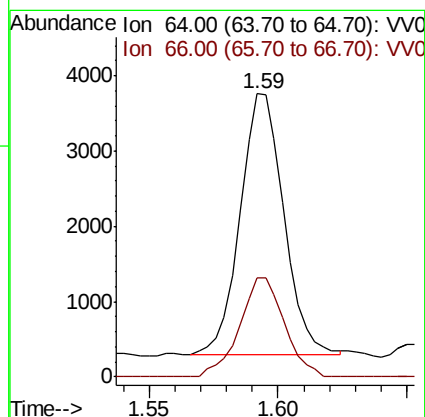
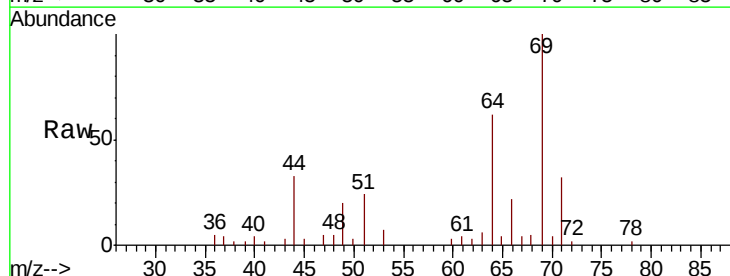
Acq: 14 Aug 2020 18:59

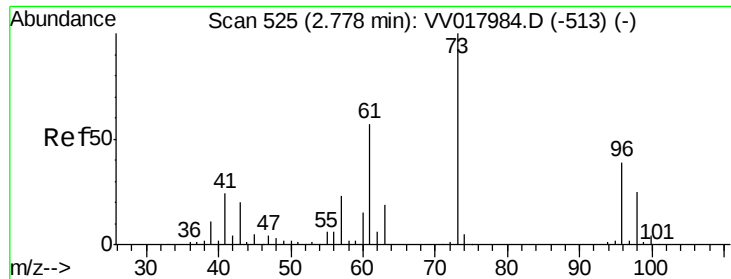
Tgt Ion: 64 Resp: 4053

Ion Ratio Lower Upper

64 100

66 34.9 22.3 41.3

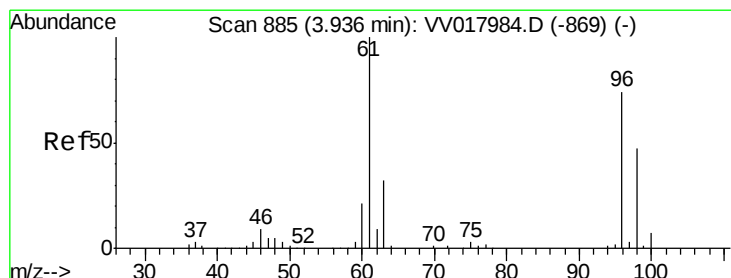
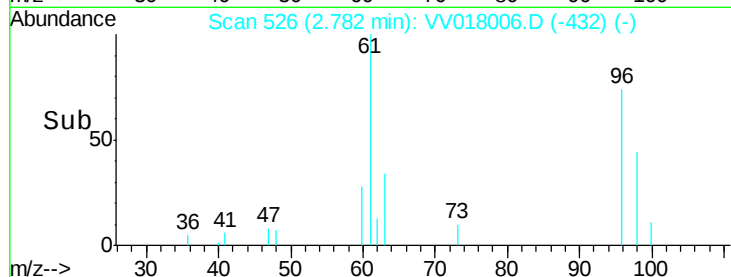
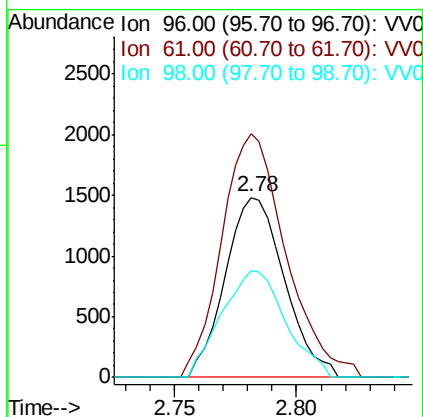
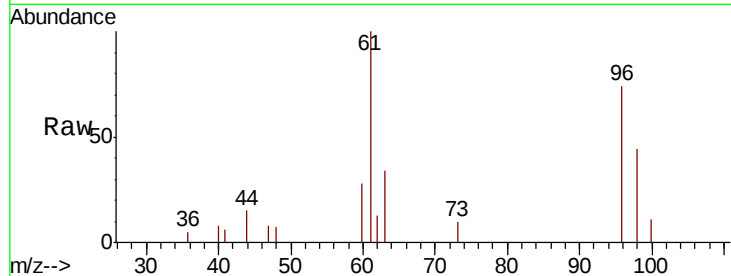




#17  
trans-1,2-Dichloroethene  
Concen: 1.488 ug/L  
RT: 2.78 min Scan# 526  
Delta R.T. 0.00 min  
Lab File: VV018006.D  
Acq: 14 Aug 2020 18:59

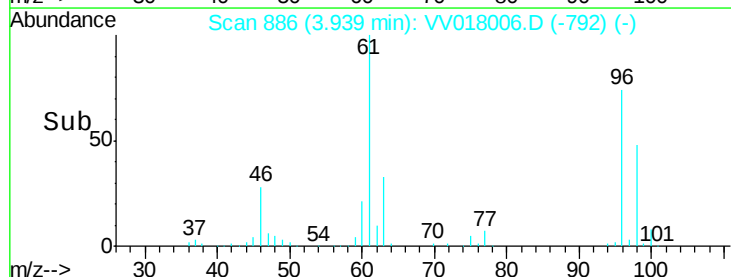
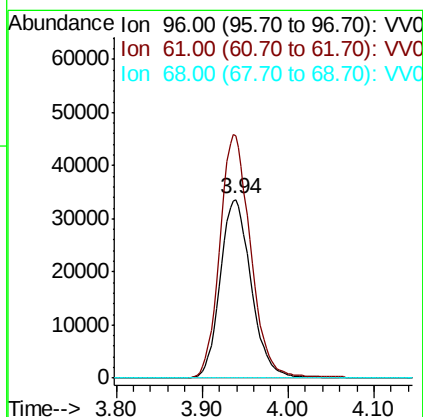
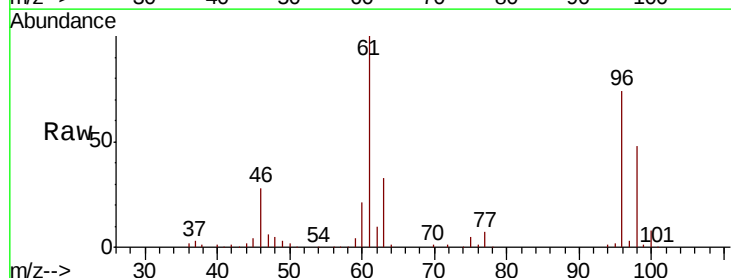
Instrument :  
MSVOA\_V  
ClientSampled :  
F4L71DL

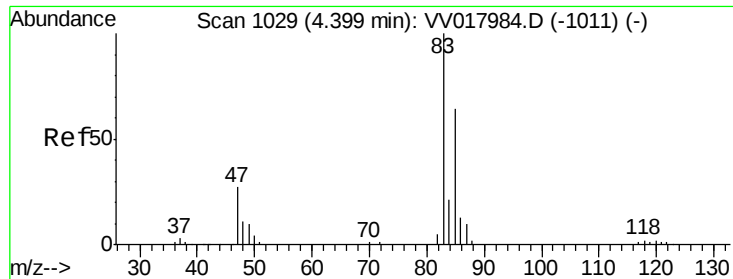
Tot Ion: 96 Resp: 2501  
Ion Ratio Lower Upper  
96 100  
61 135.2 102.4 190.2  
98 59.2 44.4 82.5



#20  
cis-1,2-Dichloroethene  
Concen: 45.618 ug/L  
RT: 3.94 min Scan# 886  
Delta R.T. 0.00 min  
Lab File: VV018006.D  
Acq: 14 Aug 2020 18:59

Tgt Ion: 96 Resp: 84273  
Ion Ratio Lower Upper  
96 100  
61 135.7 95.0 176.4  
68 0.0 0.0 0.0

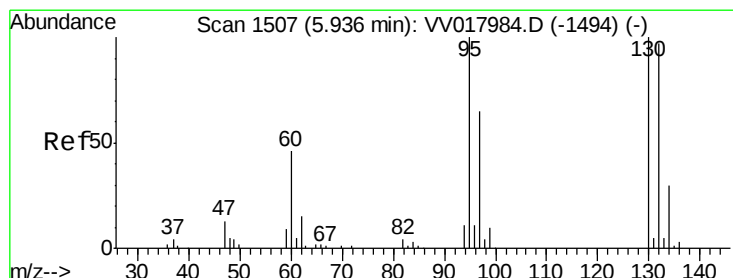
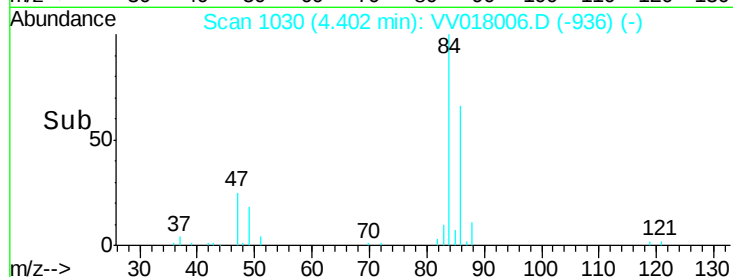
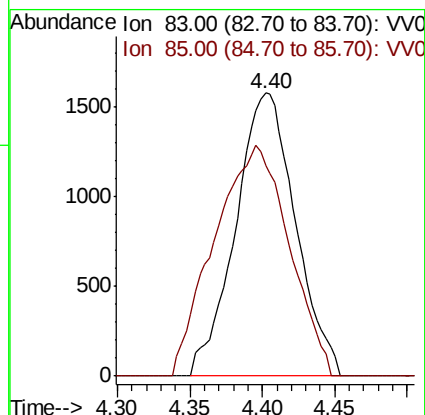
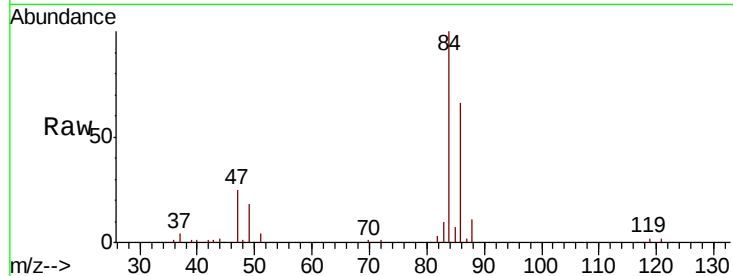




#25  
Chloroform  
Concen: 1.313 ug/L  
RT: 4.40 min Scan# 1030  
Delta R.T. 0.00 min  
Lab File: VV018006.D  
Acq: 14 Aug 2020 18:59

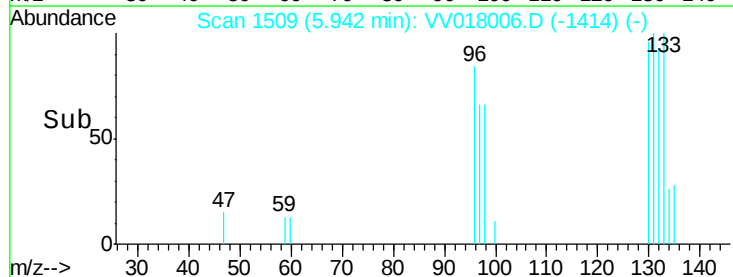
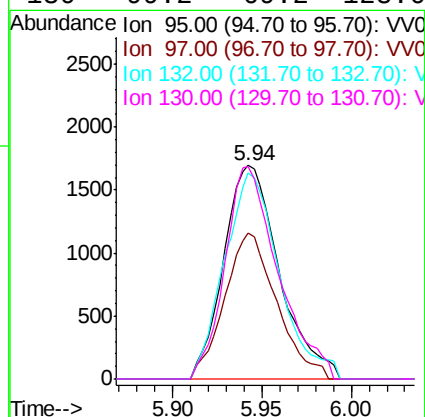
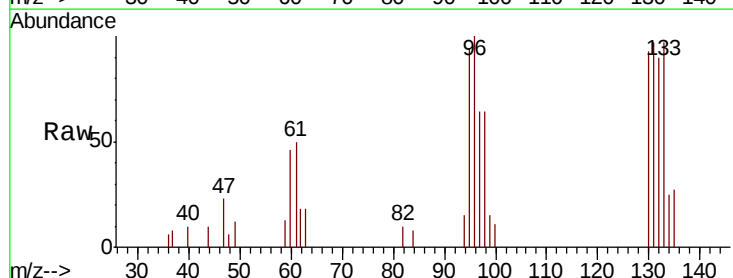
Instrument :  
MSVOA\_V  
ClientSampleId :  
F4L71DL

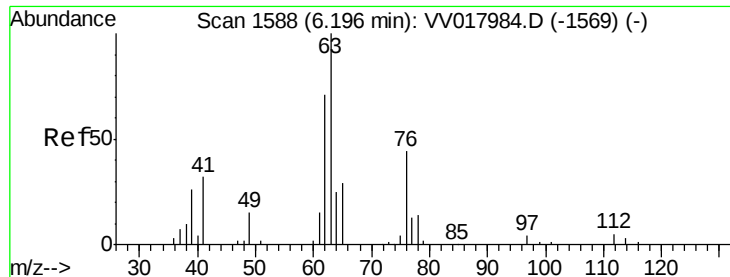
Tot Ion: 83 Resp: 4528  
Ion Ratio Lower Upper  
83 100  
85 74.5 45.5 84.5



#34  
Trichloroethene  
Concen: 1.864 ug/L  
RT: 5.94 min Scan# 1509  
Delta R.T. 0.01 min  
Lab File: VV018006.D  
Acq: 14 Aug 2020 18:59

Tgt Ion: 95 Resp: 3676  
Ion Ratio Lower Upper  
95 100  
97 68.6 46.0 85.4  
132 96.2 65.8 122.2  
130 99.2 69.2 128.6

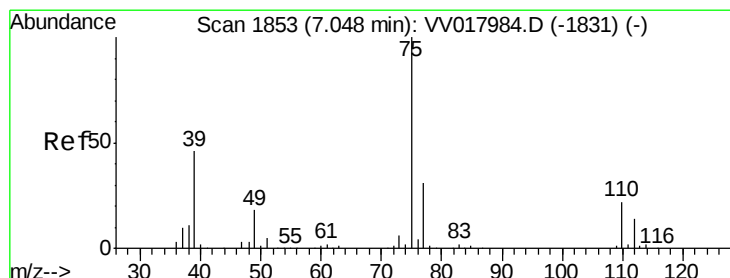
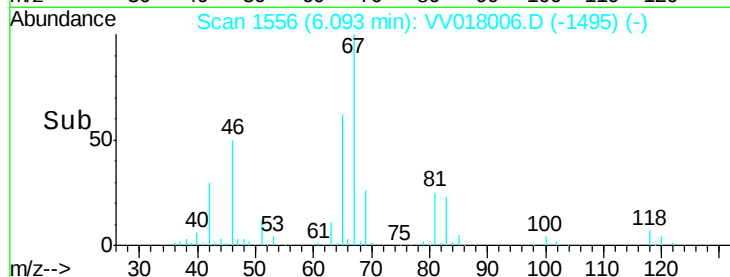
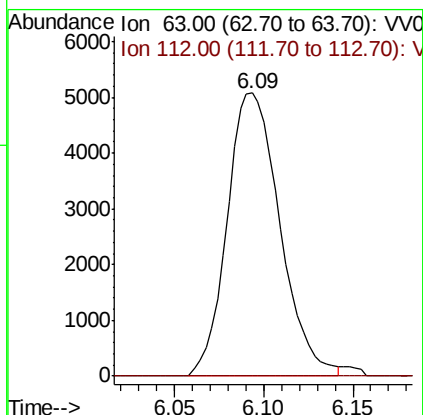
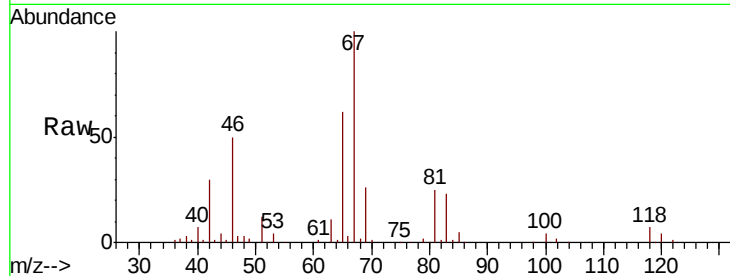




#37  
 1,2-Dichloropropane  
 Concen: 5.129 ug/L  
 RT: 6.09 min Scan# 1556  
 Delta R.T. -0.10 min  
 Lab File: VV018006.D  
 Acq: 14 Aug 2020 18:59

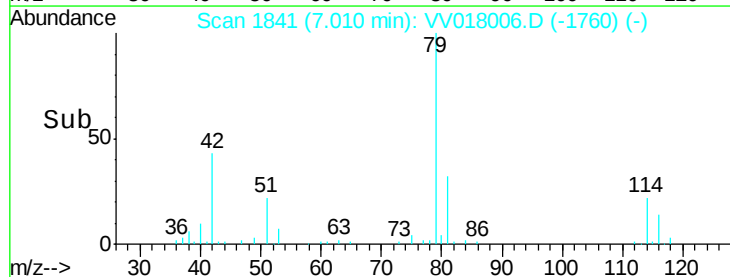
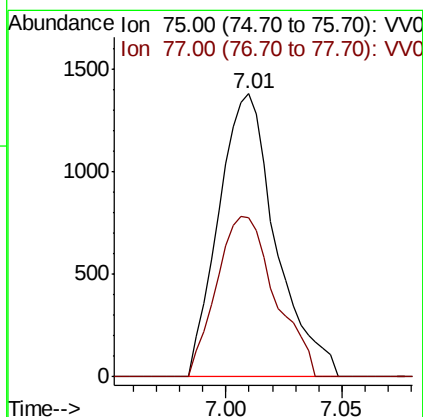
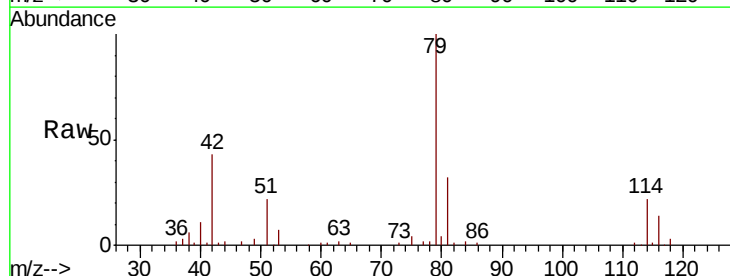
Instrument :  
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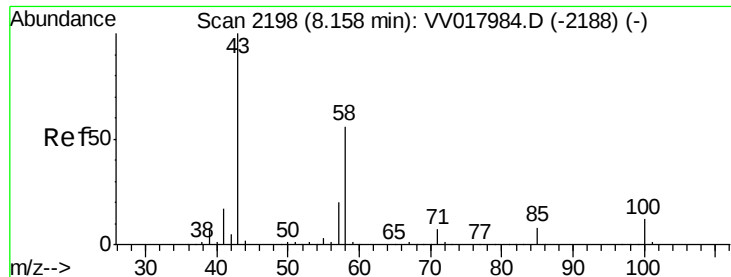
Tot Ion: 63 Resp: 10436  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.5 5.3#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.821 ug/L  
 RT: 7.01 min Scan# 1841  
 Delta R.T. -0.04 min  
 Lab File: VV018006.D  
 Acq: 14 Aug 2020 18:59

Tgt Ion: 75 Resp: 2367  
 Ion Ratio Lower Upper  
 75 100  
 77 56.5 22.3 41.5#

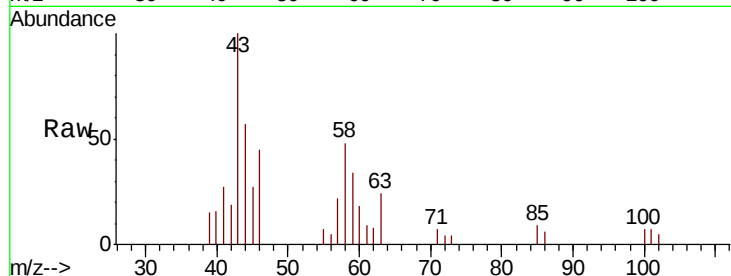




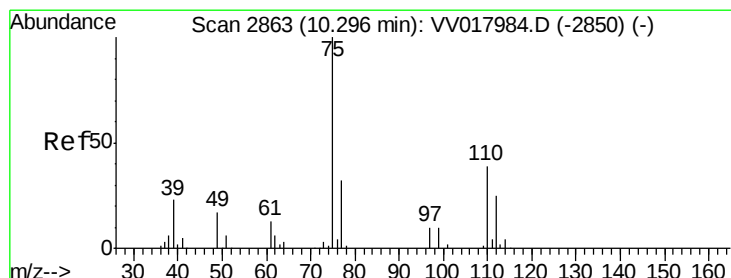
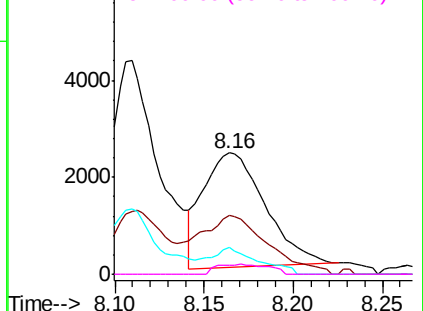
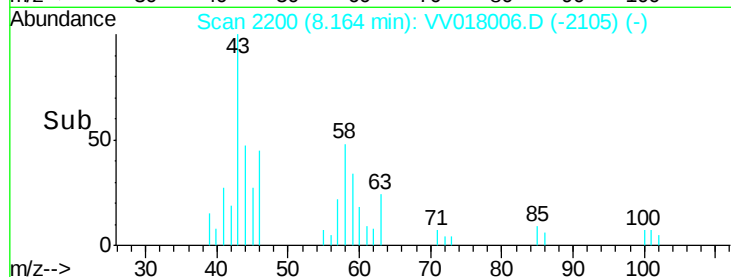
#48  
 2-Hexanone  
 Concen: 2.670 ug/L  
 RT: 8.16 min Scan# 2200  
 Delta R.T. 0.01 min  
 Lab File: VV018006.D  
 Acq: 14 Aug 2020 18:59

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 F4L71DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 5726  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 53.3  | 44.4  | 66.6  |
| 57       | 18.5  | 15.2  | 22.8  |
| 100      | 7.3   | 9.8   | 14.6  |

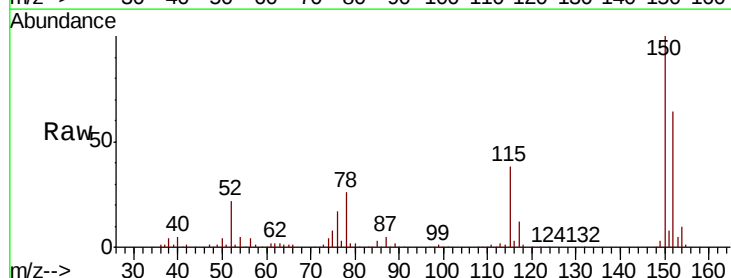


Abundance Ion 43.00 (42.70 to 43.70): VV0  
 Ion 58.00 (57.70 to 58.70): VV0  
 Ion 57.00 (56.70 to 57.70): VV0  
 Ion 100.00 (99.70 to 100.70): VV0



#59  
 1,2,3-Trichloropropane  
 Concen: 5.306 ug/L  
 RT: 11.27 min Scan# 3166  
 Delta R.T. 0.97 min  
 Lab File: VV018006.D  
 Acq: 14 Aug 2020 18:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 13333 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 36.3  | 25.7  | 38.5  |



Abundance Ion 75.00 (74.70 to 75.70): VV0  
 Ion 77.00 (76.70 to 77.70): VV0

