

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV111918\  
 Data File : VV008645.D  
 Acq On : 19 Nov 2018 12:45  
 Operator : SY/MD  
 Sample : J5995-01  
 Misc : 25.0 mL/MSVOA V/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 H0FG6

Quant Time: Nov 20 07:18:23 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR111718WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Nov 20 06:56:52 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 146932   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 132234   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 58046    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 29316    | 4.49     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 89.80% |
| 7) Chloroethane-d5             | 1.59   | 69    | 24188    | 4.50     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 90.00% |
| 11) 1,1-Dichloroethene-d2      | 2.14   | 63    | 44938    | 3.39     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 67.80% |
| 20) 2-Butanone-d5              | 3.96   | 46    | 110579   | 47.35    | ug/L | -0.01  |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 94.70% |
| 24) Chloroform-d               | 4.41   | 84    | 79356    | 4.45     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.00% |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 42042    | 4.63     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.60% |
| 32) Benzene-d6                 | 5.10   | 84    | 160430   | 4.65     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.00% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 51522    | 4.63     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 92.60% |
| 41) Toluene-d8                 | 7.36   | 98    | 141487   | 4.37     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 87.40% |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 17475    | 4.12     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 82.40% |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 84138    | 43.78    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 87.56% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 35696    | 4.59     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 91.80% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 48262    | 4.61     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 92.20% |

## Target Compounds

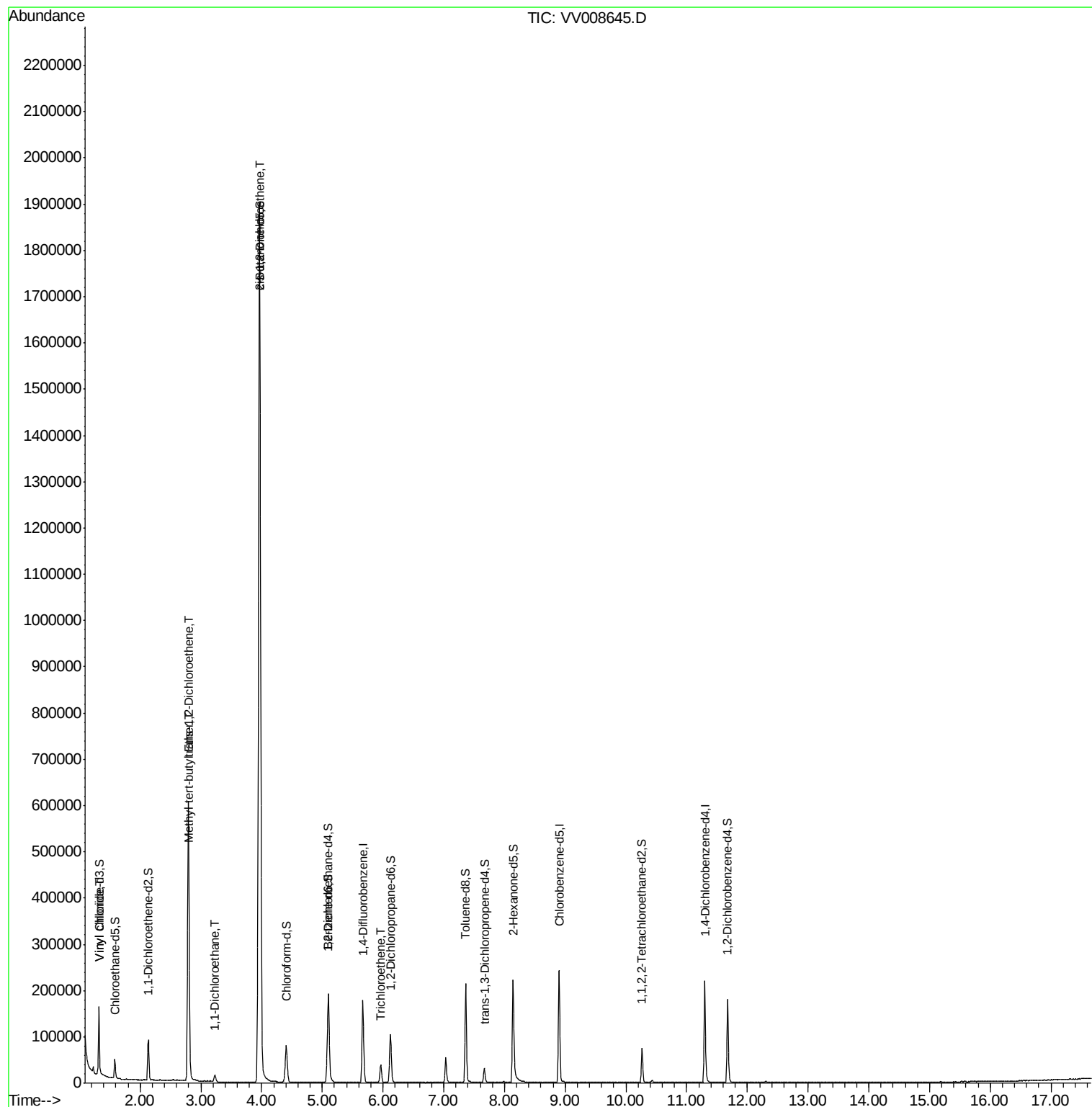
|                              |      |    |         |        | Ovalue   |
|------------------------------|------|----|---------|--------|----------|
| 5) Vinyl chloride            | 1.32 | 62 | 62513   | 6.727  | ug/L 99  |
| 17) Methyl tert-butyl Ether  | 2.81 | 73 | 44032   | 2.429  | ug/L 100 |
| 18) trans-1,2-Dichloroethene | 2.79 | 96 | 211057  | 28.542 | ug/L 97  |
| 19) 1,1-Dichloroethane       | 3.23 | 63 | 13951   | 0.746  | ug/L 96  |
| 22) cis-1,2-Dichloroethene   | 3.96 | 96 | 1027966 | 92.106 | ug/L 99  |
| 34) Trichloroethene          | 5.96 | 95 | 13405   | 1.210  | ug/L 96  |

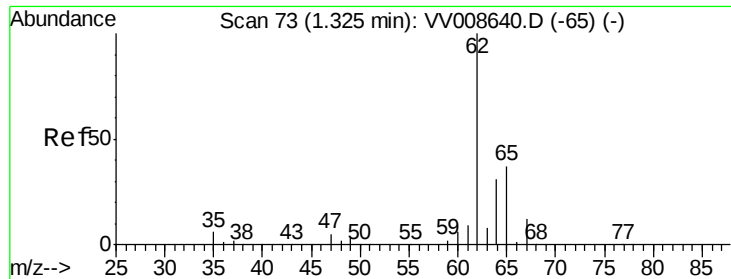
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 6.727 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV008645.D

Acq: 19 Nov 2018 12:45

Instrument :

MSVOA\_V

ClientSampleId :

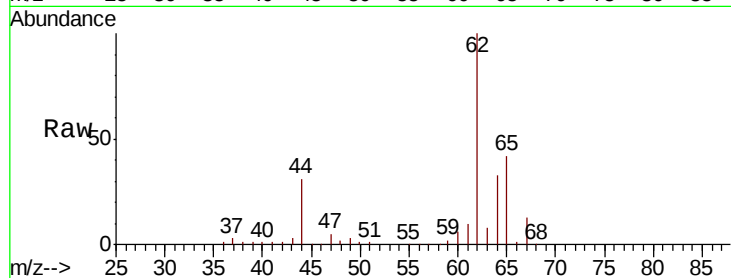
H0FG6

Tot Ion: 62 Resp: 62513

Ion Ratio Lower Upper

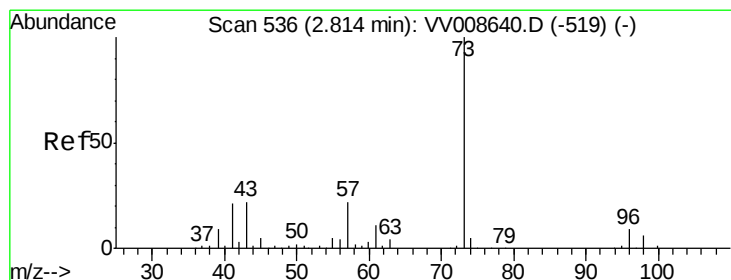
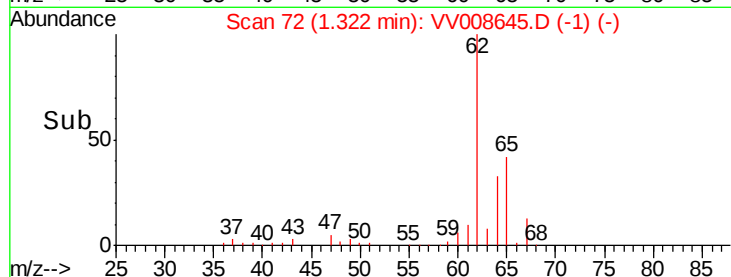
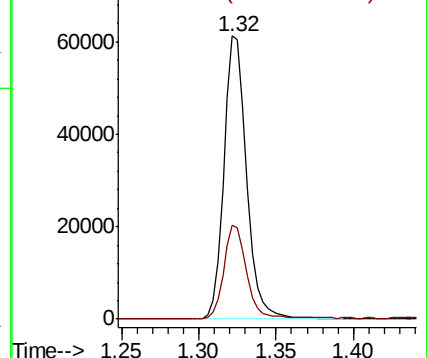
62 100

64 33.0 23.4 43.4



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#17

Methyl tert-butyl Ether

Concen: 2.429 ug/L

RT: 2.81 min Scan# 536

Delta R.T. 0.00 min

Lab File: VV008645.D

Acq: 19 Nov 2018 12:45

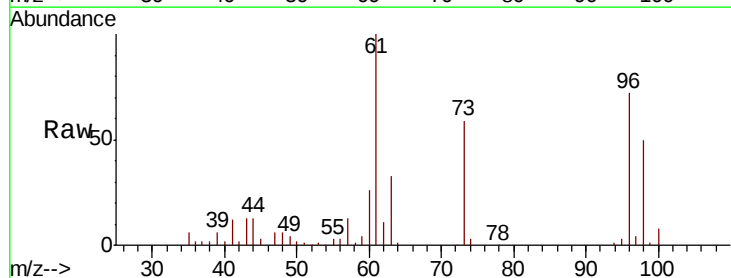
Tgt Ion: 73 Resp: 44032

Ion Ratio Lower Upper

73 100

43 22.7 18.1 27.1

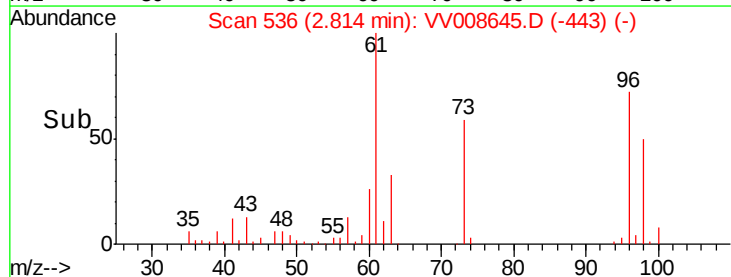
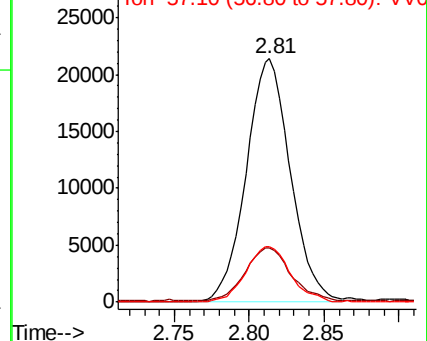
57 22.8 17.9 26.9

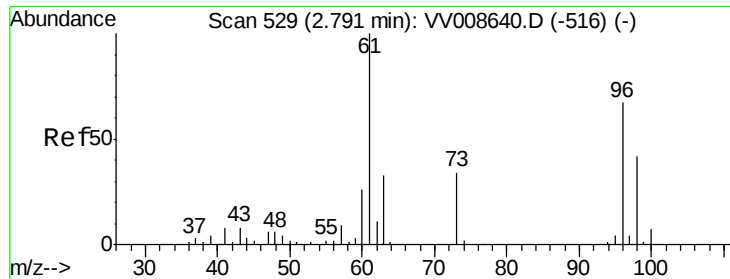


Abundance Ion 73.10 (72.80 to 73.80): VV0

Ion 43.05 (42.75 to 43.75): VV0

Ion 57.10 (56.80 to 57.80): VV0

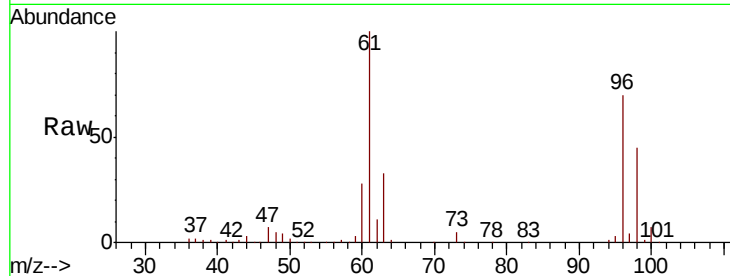




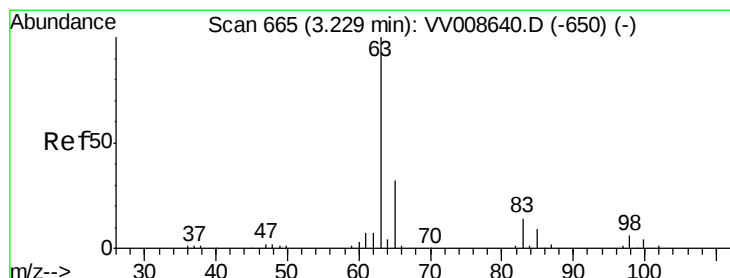
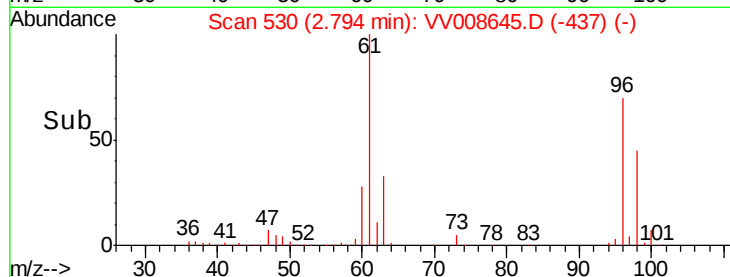
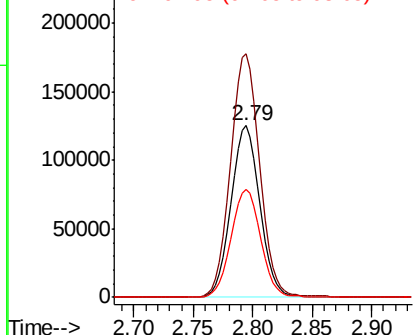
#18  
trans-1,2-Dichloroethene  
Concen: 28.542 ug/L  
RT: 2.79 min Scan# 530  
Delta R.T. 0.00 min  
Lab File: VV008645.D  
Acq: 19 Nov 2018 12:45

Instrument :  
MSVOA\_V  
ClientSampleId :  
H0FG6

Tot Ion: 96 Resp: 211057  
Ion Ratio Lower Upper  
96 100  
61 142.0 97.1 180.3  
98 63.3 41.9 77.7

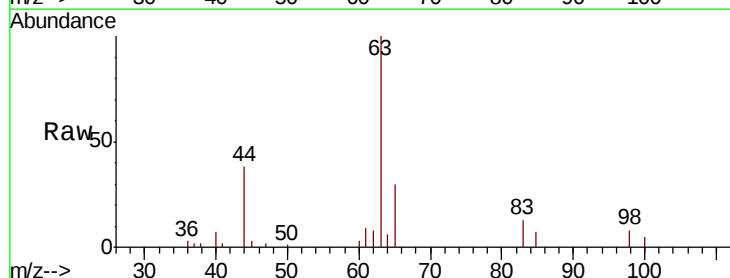


Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.05 (60.75 to 61.75): VV0  
Ion 97.95 (97.65 to 98.65): VV0

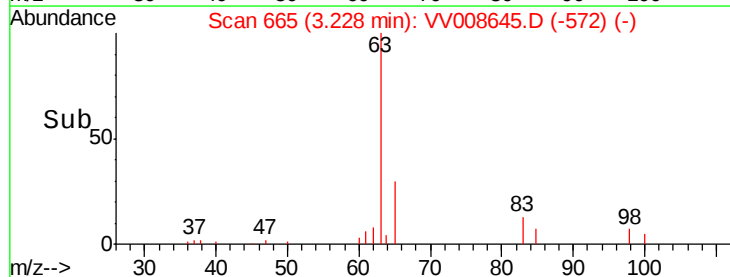
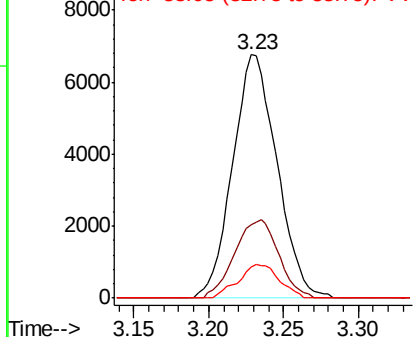


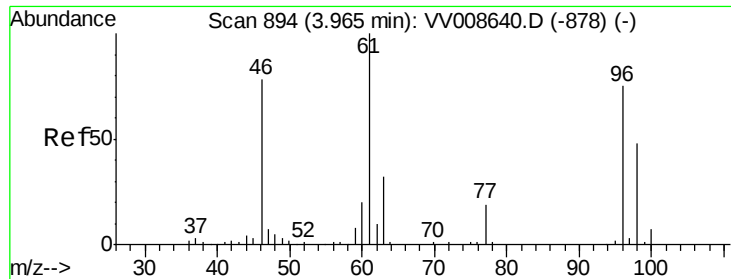
#19  
1,1-Dichloroethane  
Concen: 0.746 ug/L  
RT: 3.23 min Scan# 665  
Delta R.T. 0.00 min  
Lab File: VV008645.D  
Acq: 19 Nov 2018 12:45

Tgt Ion: 63 Resp: 13951  
Ion Ratio Lower Upper  
63 100  
65 30.3 23.2 43.0  
83 13.0 9.5 17.7



Abundance Ion 63.10 (62.80 to 63.80): VV0  
Ion 65.10 (64.80 to 65.80): VV0  
Ion 83.05 (82.75 to 83.75): VV0



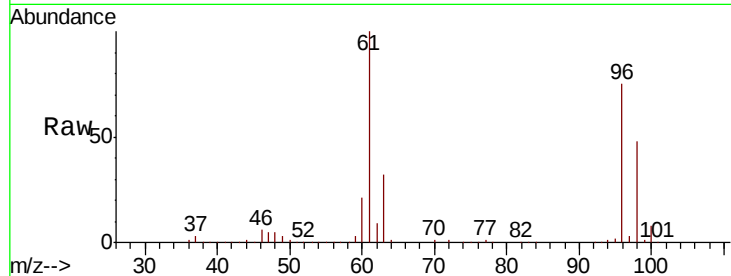


#22

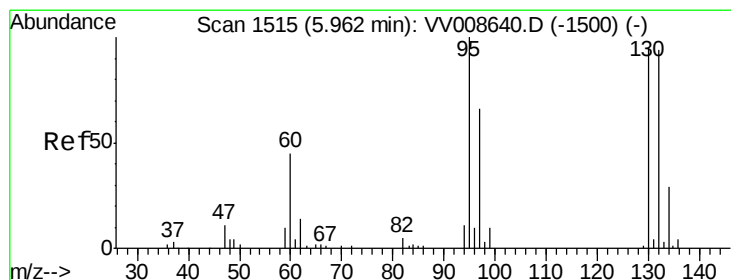
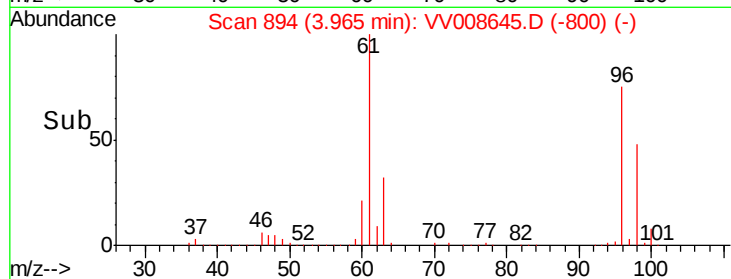
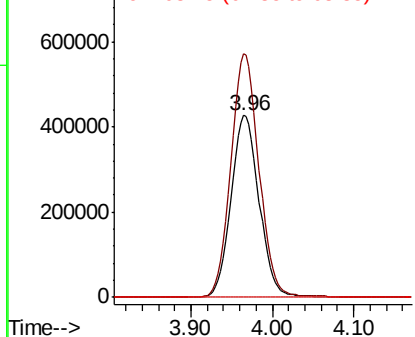
cis-1,2-Dichloroethene  
Concen: 92.106 ug/L  
RT: 3.96 min Scan# 894  
Delta R.T. 0.00 min  
Lab File: VV008645.D  
Acq: 19 Nov 2018 12:45

Instrument :  
MSVOA\_V  
ClientSampleId :  
H0FG6

Tot Ion: 96 Resp: 1027966  
Ion Ratio Lower Upper  
96 100  
61 134.0 93.2 173.2  
68 0.0 0.0 0.0



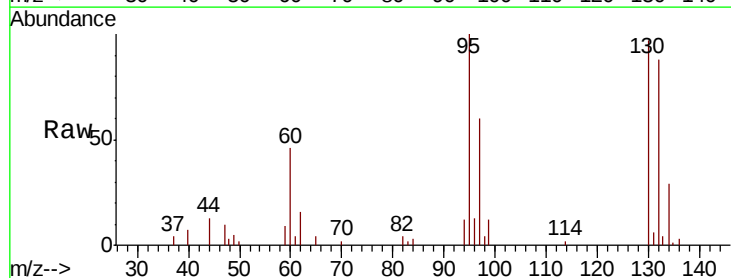
Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.05 (60.75 to 61.75): VV0  
Ion 68.15 (67.85 to 68.85): VV0



#34

Trichloroethene  
Concen: 1.210 ug/L  
RT: 5.96 min Scan# 1516  
Delta R.T. 0.00 min  
Lab File: VV008645.D  
Acq: 19 Nov 2018 12:45

Tgt Ion: 95 Resp: 13405  
Ion Ratio Lower Upper  
95 100  
97 60.3 45.1 83.7  
132 87.8 66.3 123.1  
130 97.4 68.0 126.4



Abundance Ion 95.00 (94.70 to 95.70): VV0  
Ion 96.95 (96.65 to 97.65): VV0  
Ion 131.95 (131.65 to 132.65): VV0  
Ion 129.95 (129.65 to 130.65): VV0

