

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV022020\  
 Data File : VV014638.D  
 Acq On : 20 Feb 2020 20:54  
 Operator : SY/MD  
 Sample : L1607-16  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AQ2

Quant Time: Feb 21 05:56:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM021220WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Feb 21 03:31:59 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 263714   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 243777   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 117009   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 50327    | 49.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 99.38%  |
| 7) Chloroethane-d5             | 1.59    | 69    | 37743    | 52.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 105.98% |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 72199    | 42.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 85.44%  |
| 21) 2-Butanone-d5              | 3.94    | 46    | 86870    | 103.44   | ug/L | 0.01    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.44% |
| 24) Chloroform-d               | 4.40    | 84    | 144426   | 48.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 98725    | 53.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 107.78% |
| 32) Benzene-d6                 | 5.10    | 84    | 311289   | 53.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 106.80% |
| 36) 1,2-Dichloropropane-d6     | 6.11    | 67    | 92523    | 52.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 105.38% |
| 41) Toluene-d8                 | 7.36    | 98    | 288703   | 51.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.94% |
| 43) trans-1,3-Dichloropropene- | 7.66    | 79    | 47818    | 49.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 98.78%  |
| 47) 2-Hexanone-d5              | 8.13    | 63    | 71058    | 101.27   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 101.27% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.25   | 84    | 122922   | 51.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 103.16% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67   | 152   | 111795   | 54.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 108.16% |

## Target Compounds

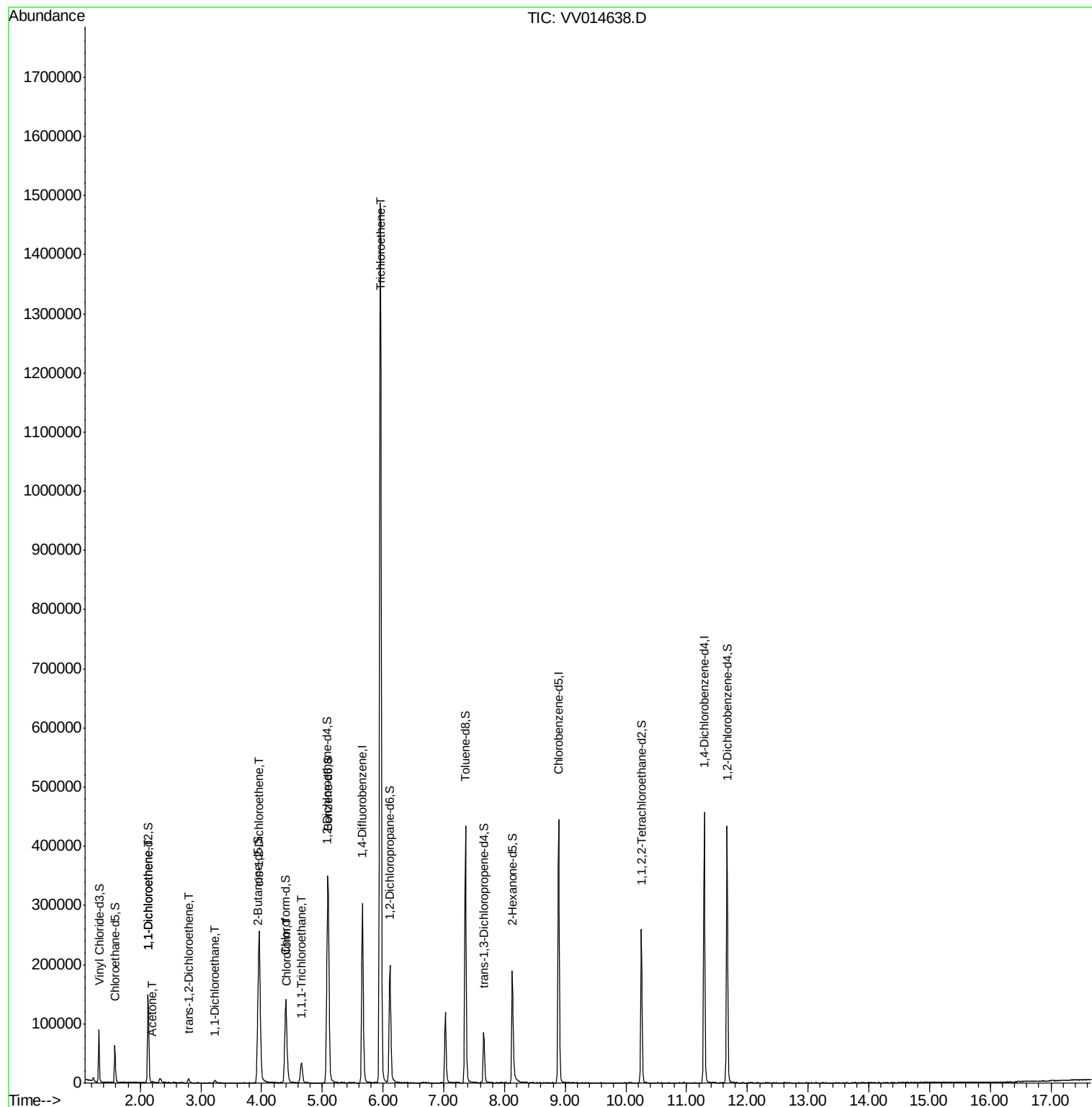
|                              |      |    |        |              | Ovalue |
|------------------------------|------|----|--------|--------------|--------|
| 12) 1,1-Dichloroethene       | 2.14 | 96 | 5298   | 6.551 ug/L   | # 1    |
| 13) Acetone                  | 2.20 | 43 | 2066   | 2.867 ug/L   | 93     |
| 17) trans-1,2-Dichloroethene | 2.80 | 96 | 2989   | 1.873 ug/L   | 96     |
| 19) 1,1-Dichloroethane       | 3.24 | 63 | 3957   | 1.414 ug/L   | 94     |
| 20) cis-1,2-Dichloroethene   | 3.96 | 96 | 135891 | 73.673 ug/L  | 97     |
| 25) Chloroform               | 4.42 | 83 | 10922  | 3.529 ug/L   | 98     |
| 30) 1,1,1-Trichloroethane    | 4.66 | 97 | 27688  | 10.441 ug/L  | 99     |
| 34) Trichloroethene          | 5.96 | 95 | 519432 | 300.742 ug/L | 99     |

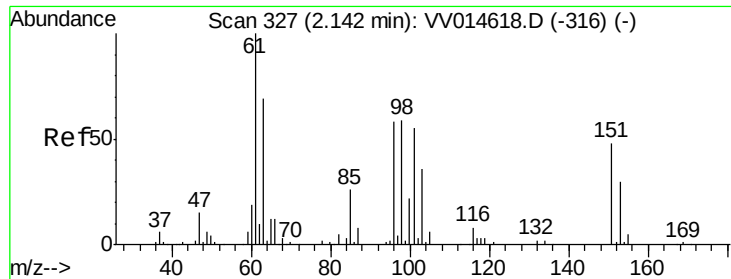
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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C0AQ2

Quant Time: Feb 21 05:56:05 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM021220WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Feb 21 03:31:59 2020  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 6.551 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV014638.D

Acq: 20 Feb 2020 20:54

Instrument :

MSVOA\_V

ClientSampled :

C0AQ2

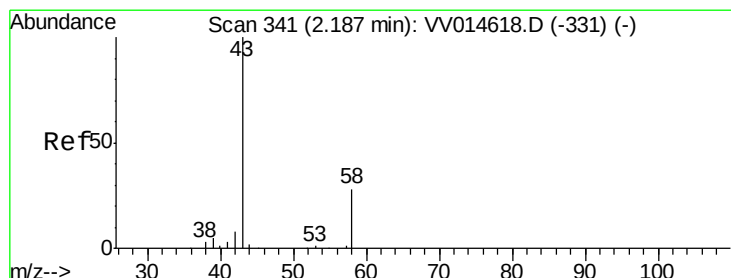
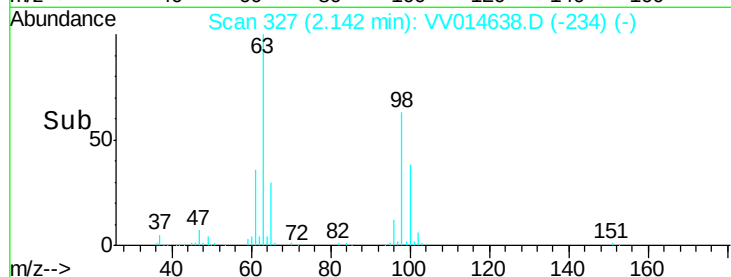
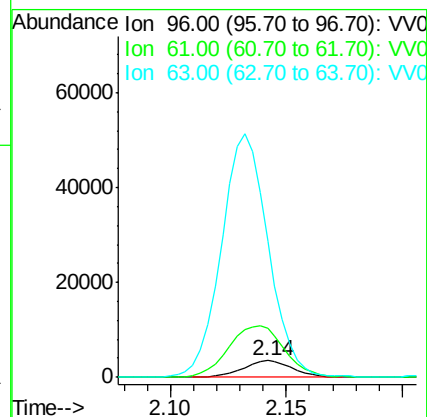
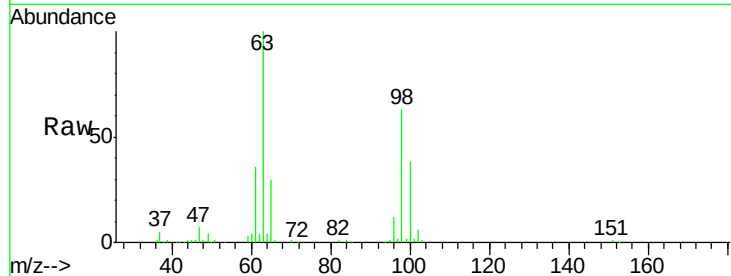
Tot Ion: 96 Resp: 5298

Ion Ratio Lower Upper

96 100

61 287.7 124.2 230.6#

63 800.7 89.2 165.8#



#13

Acetone

Concen: 2.867 ug/L

RT: 2.20 min Scan# 345

Delta R.T. 0.01 min

Lab File: VV014638.D

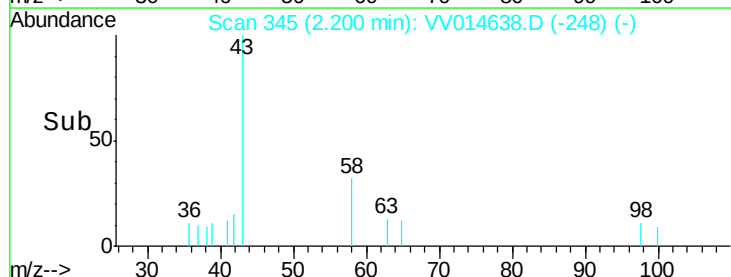
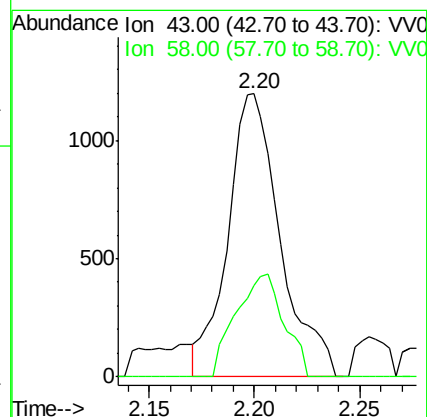
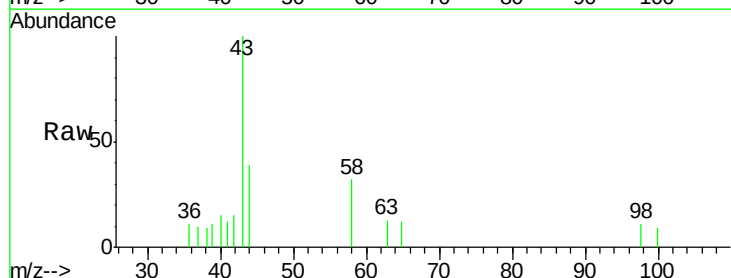
Acq: 20 Feb 2020 20:54

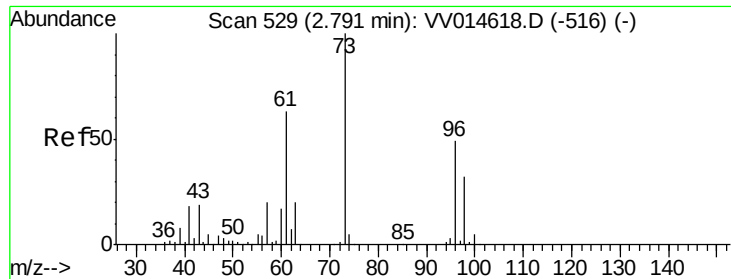
Tgt Ion: 43 Resp: 2066

Ion Ratio Lower Upper

43 100

58 33.2 0.0 58.8





#17

trans-1,2-Dichloroethene

Concen: 1.873 ug/L

RT: 2.80 min Scan# 531

Delta R.T. 0.01 min

Lab File: VV014638.D

Acq: 20 Feb 2020 20:54

Instrument :

MSVOA\_V

ClientSampleId :

C0AQ2

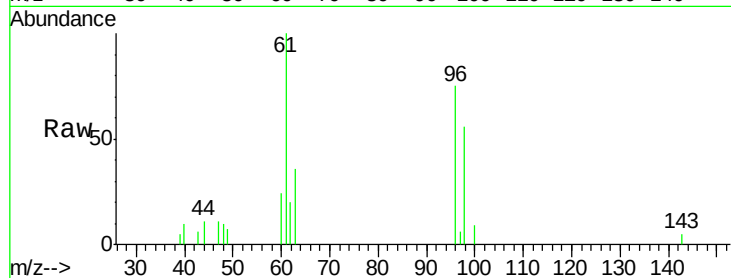
Tot Ion: 96 Resp: 2989

Ion Ratio Lower Upper

96 100

61 132.6 93.0 172.6

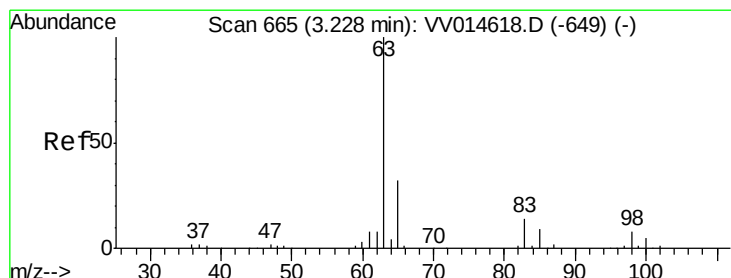
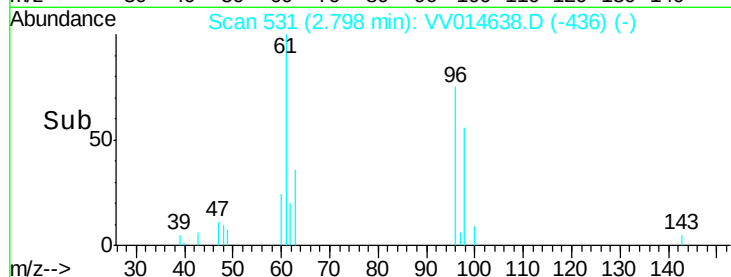
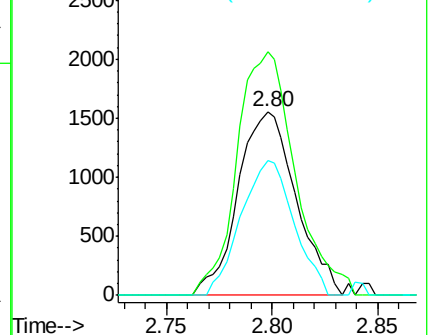
98 73.6 44.2 82.0



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#19

1,1-Dichloroethane

Concen: 1.414 ug/L

RT: 3.24 min Scan# 667

Delta R.T. 0.01 min

Lab File: VV014638.D

Acq: 20 Feb 2020 20:54

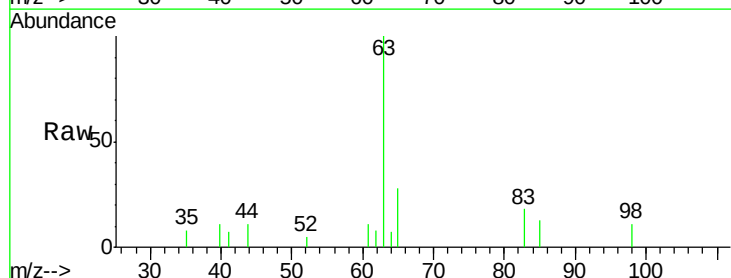
Tgt Ion: 63 Resp: 3957

Ion Ratio Lower Upper

63 100

65 28.3 22.2 41.2

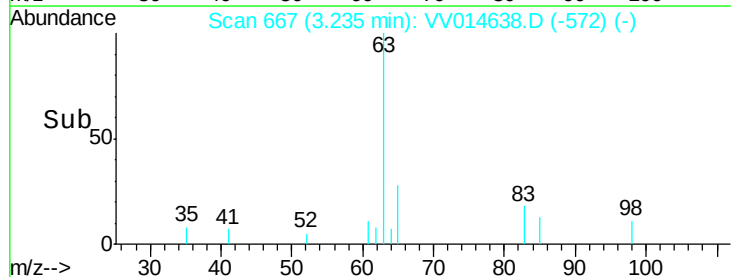
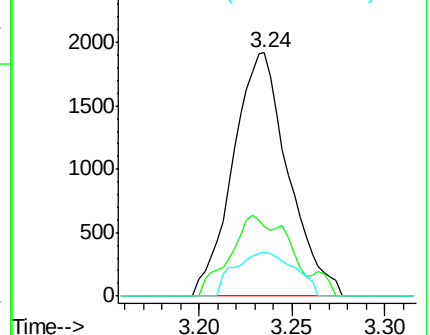
83 17.8 10.4 19.2

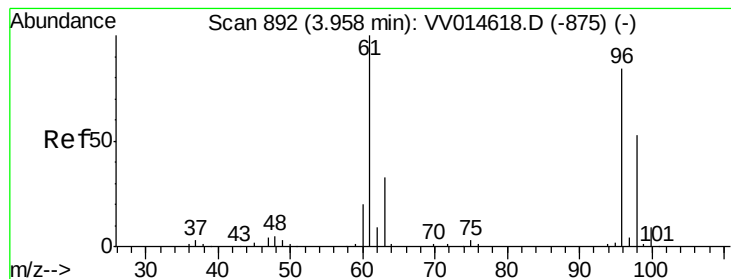


Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0





#20

cis-1,2-Dichloroethene

Concen: 73.673 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

Lab File: VV014638.D

Acq: 20 Feb 2020 20:54

Instrument :

MSVOA\_V

ClientSampleId :

C0AQ2

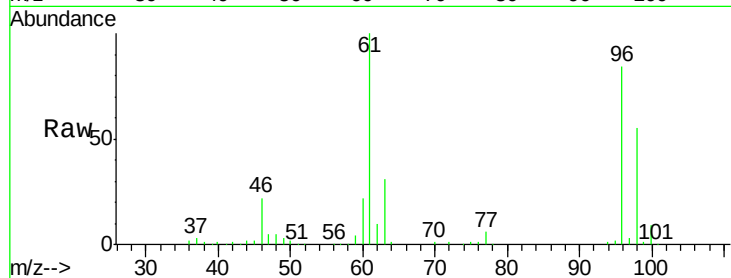
Tot Ion: 96 Resp: 135891

Ion Ratio Lower Upper

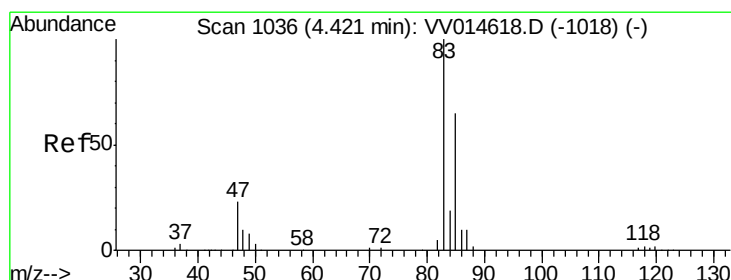
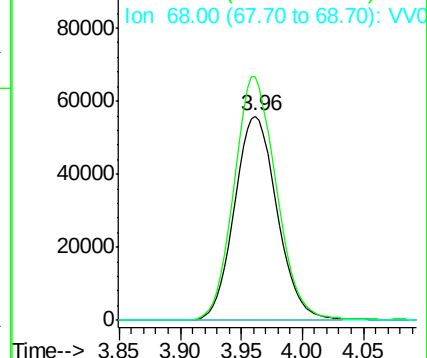
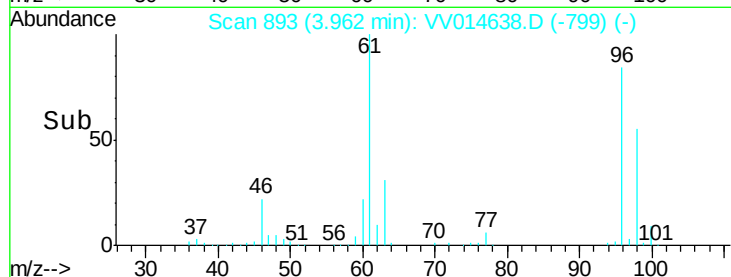
96 100

61 119.0 85.9 159.5

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV014638.D (-799) (-)



#25

Chloroform

Concen: 3.529 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VV014638.D

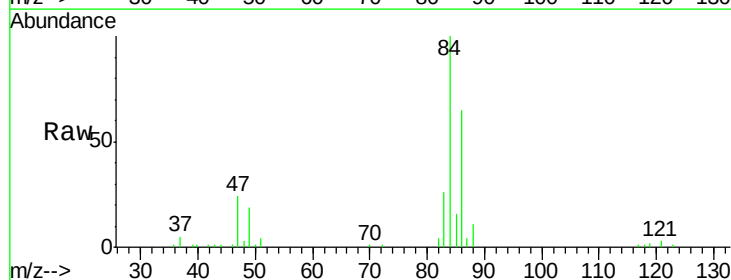
Acq: 20 Feb 2020 20:54

Tgt Ion: 83 Resp: 10922

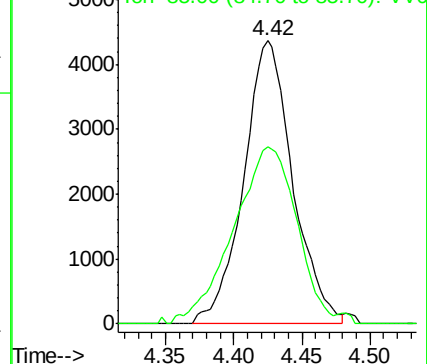
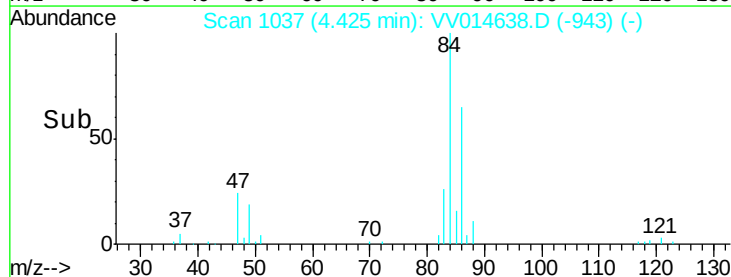
Ion Ratio Lower Upper

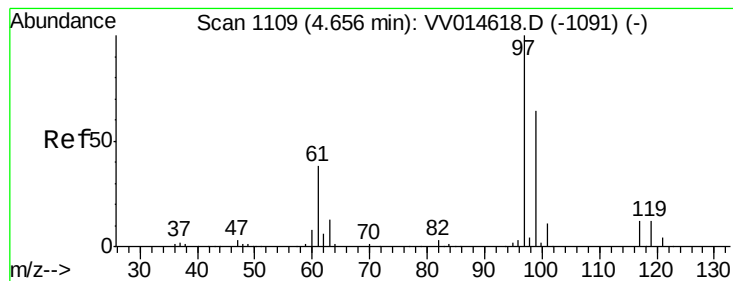
83 100

85 62.4 45.0 83.6



Abundance Ion 83.00 (82.70 to 83.70): VV014638.D (-943) (-)





#30

1,1,1-Trichloroethane

Concen: 10.441 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VV014638.D

Acq: 20 Feb 2020 20:54

Instrument :

MSVOA\_V

ClientSampleId :

C0AQ2

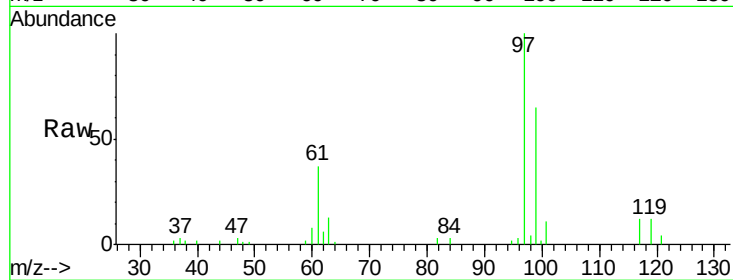
Tot Ion: 97 Resp: 27688

Ion Ratio Lower Upper

97 100

99 63.1 51.2 76.8

61 40.0 32.4 48.6

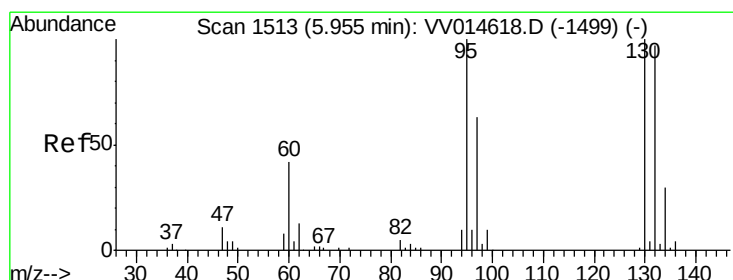
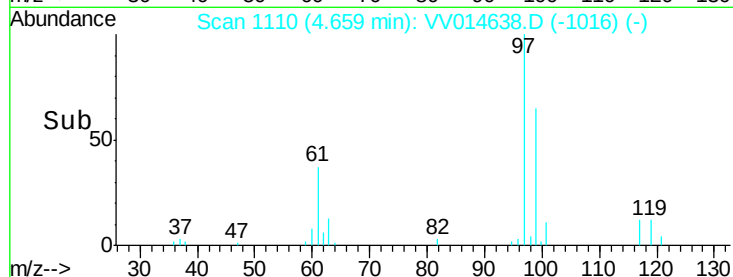
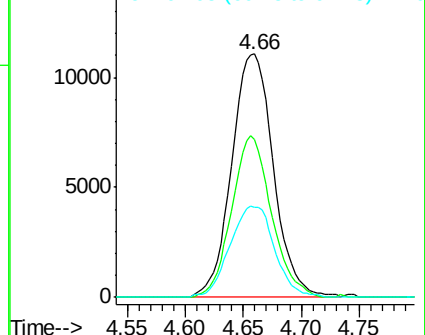


Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.05 (60.75 to 61.75): VV0



#34

Trichloroethene

Concen: 300.742 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV014638.D

Acq: 20 Feb 2020 20:54

Tgt Ion: 95 Resp: 519432

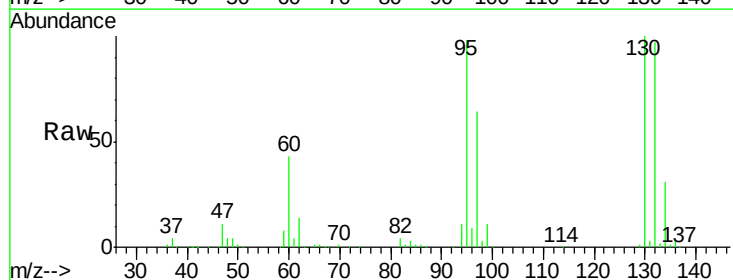
Ion Ratio Lower Upper

95 100

97 65.4 45.3 84.1

132 99.4 69.6 129.2

130 102.5 74.0 137.4



Abundance

Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

