

Data File : VV008940.D  
Acq On : 14 Dec 2018 19:29  
Operator : SY/MD  
Sample : J6369-06  
Misc : 5.0 mL/MSVOA\_V/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
COL62

Quant Time: Dec 14 23:45:43 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121318WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Dec 14 23:39:04 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 210083   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 193134   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 83170    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |          |
|--------------------------------|---------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 53680    | 43.75    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 87.50%   |
| 7) Chloroethane-d5             | 1.57    | 69    | 41732    | 54.05    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 108.10%  |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 111521   | 38.49    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 76.98%   |
| 21) 2-Butanone-d5              | 3.93    | 46    | 134591   | 164.31   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 164.31%# |
| 24) Chloroform-d               | 4.40    | 84    | 169128   | 64.61    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 129.22%# |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 85868    | 51.50    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.00%  |
| 32) Benzene-d6                 | 5.10    | 84    | 262019   | 50.34    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.68%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 79110    | 50.58    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 101.16%  |
| 41) Toluene-d8                 | 7.36    | 98    | 243069   | 49.75    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.50%   |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 37882    | 47.76    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.52%   |
| 47) 2-Hexanone-d5              | 8.13    | 63    | 54212    | 93.66    | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 93.66%   |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 95627    | 47.36    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 94.72%   |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 86157    | 50.23    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 100.46%  |

#### Target Compounds

|                                |       |     |       |       |        | Qvalue |
|--------------------------------|-------|-----|-------|-------|--------|--------|
| 9) Trichlorofluoromethane      | 2.13  | 101 | 971   | 0.414 | ug/L # | 32     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13  | 101 | 971   | 0.677 | ug/L # | 18     |
| 12) 1,1-Dichloroethene         | 2.13  | 96  | 995   | 0.763 | ug/L # | 1      |
| 34) Trichloroethene            | 5.96  | 95  | 3161  | 2.057 | ug/L   | 93     |
| 35) Methylcyclohexane          | 6.12  | 83  | 20151 | 8.842 | ug/L # | 20     |
| 37) 1,2-Dichloropropane        | 6.12  | 63  | 9545  | 6.935 | ug/L # | 86     |
| 39) cis-1,3-Dichloropropene    | 7.03  | 75  | 2440  | 1.112 | ug/L # | 57     |
| 44) trans-1,3-Dichloropropene  | 7.66  | 75  | 1756  | 0.858 | ug/L # | 58     |
| 48) 2-Hexanone                 | 8.19  | 43  | 4192  | 3.166 | ug/L # | 68     |
| 58) 1,1,2,2-Tetrachloroethane  | 10.27 | 83  | 738   | 0.360 | ug/L # | 1      |
| 59) 1,2,3-Trichloropropane     | 11.30 | 75  | 8685  | 5.011 | ug/L   | 93     |

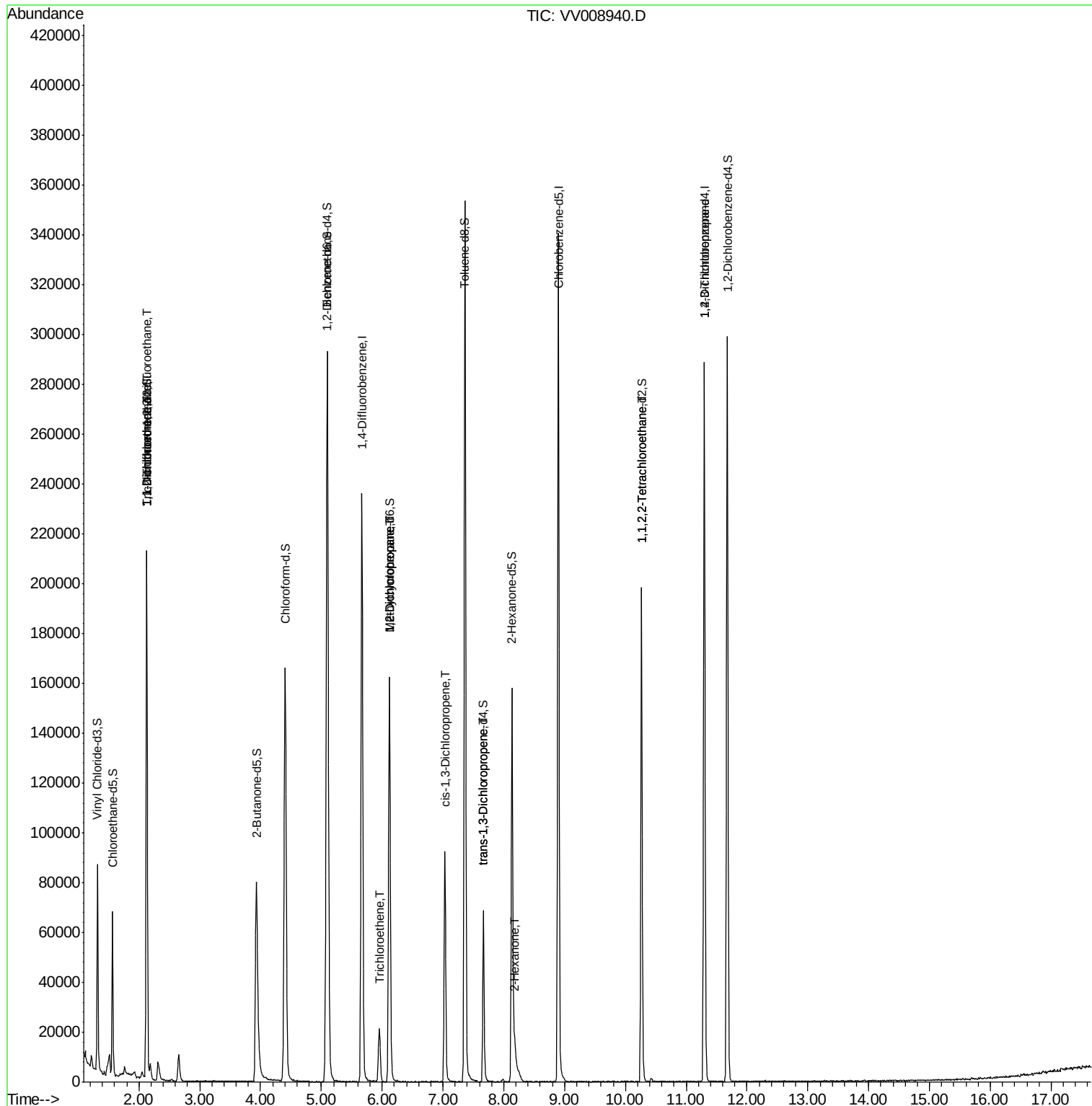
(#) = qualifier out of range (m) = manual integration (+) = signals summed

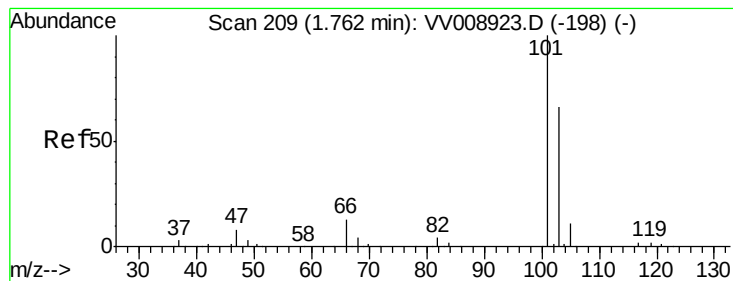
Data File : VV008940.D

```
Acq On       : 14 Dec 2018   19:29
Operator     : SY/MD
Sample       : J6369-06
Misc         : 5.0 mL/MSVOA_V/WATER
ALS Vial     : 19   Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
C0L62

Quant Time: Dec 14 23:45:43 2018  
Quant Method : Z:\V\OASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121318WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Dec 14 23:39:04 2018  
Response via : Initial Calibration





#9

Trichlorofluoromethane

Concen: 0.414 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.37 min

Lab File: VV008940.D

Acq: 14 Dec 2018 19:29

Instrument :

MSVOA\_V

ClientSampleId :

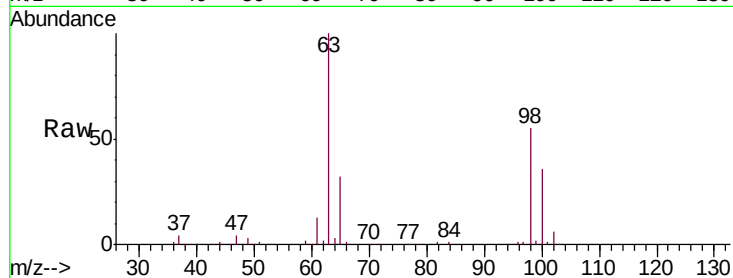
C0L62

Tgt Ion:101 Resp: 971

Ion Ratio Lower Upper

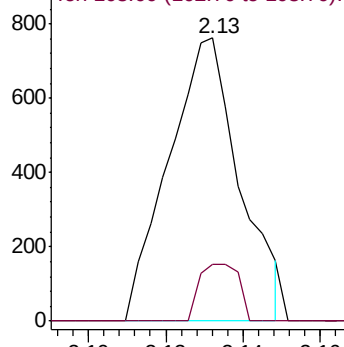
101 100

103 11.3 51.5 77.3#

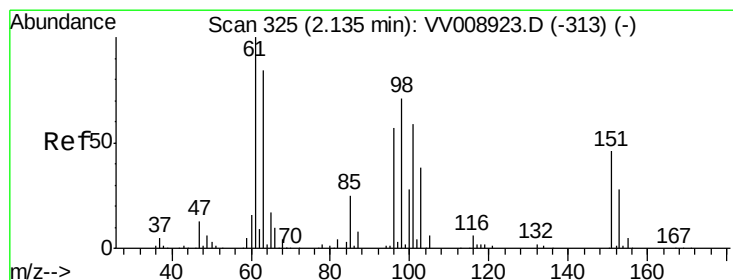
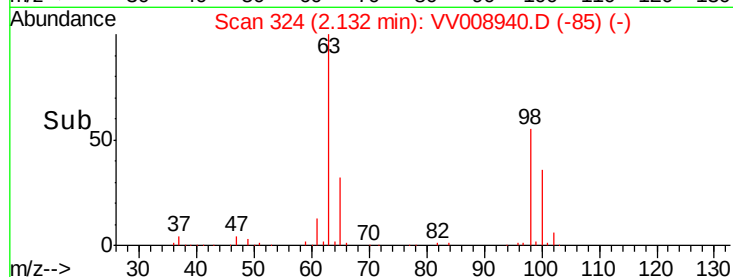


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



Time-->



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.677 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV008940.D

Acq: 14 Dec 2018 19:29

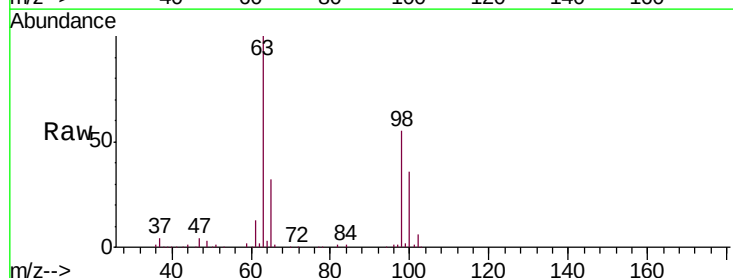
Tgt Ion:101 Resp: 971

Ion Ratio Lower Upper

101 100

85 0.0 34.6 52.0#

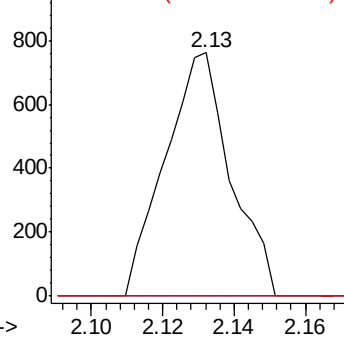
151 0.0 63.8 95.8#



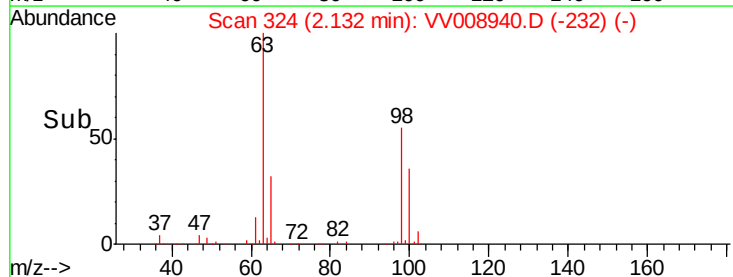
Abundance Ion 101.00 (100.70 to 101.70): V

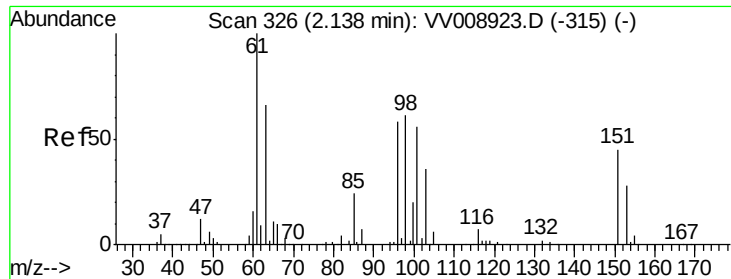
Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



Time-->

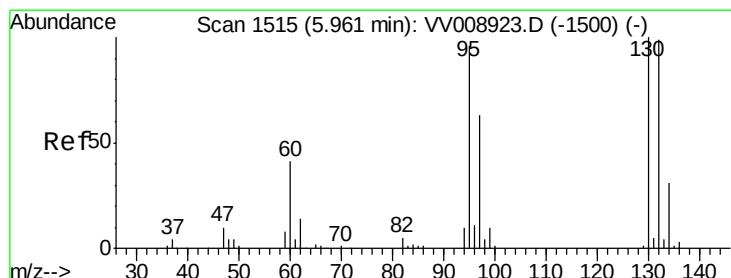
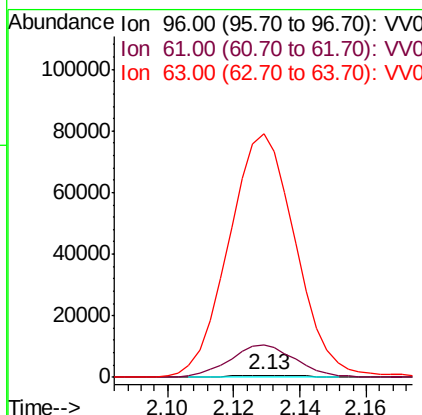
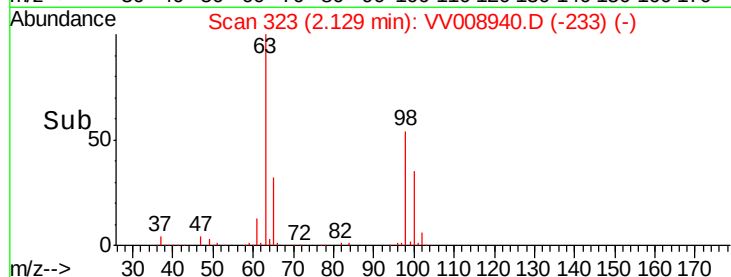
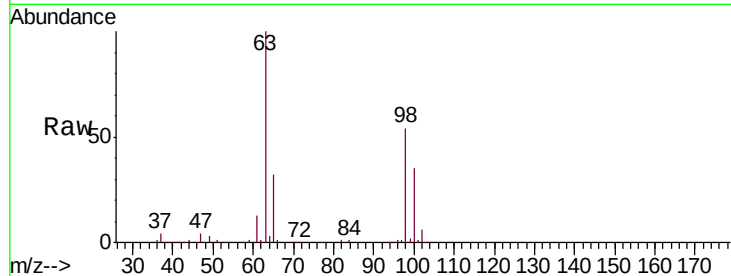




#12  
 1,1-Dichloroethene  
 Concen: 0.763 ug/L  
 RT: 2.13 min Scan# 323  
 Delta R.T. -0.01 min  
 Lab File: VV008940.D  
 Acq: 14 Dec 2018 19:29

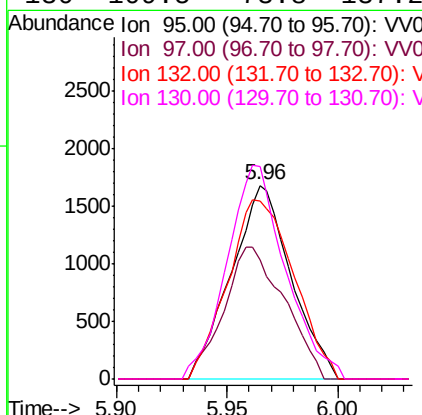
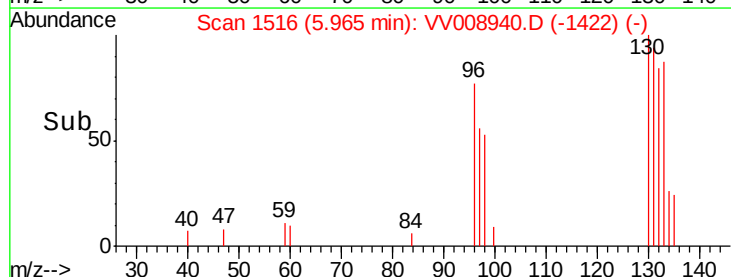
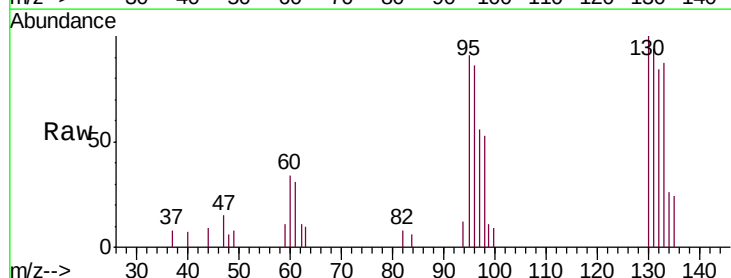
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 COL62

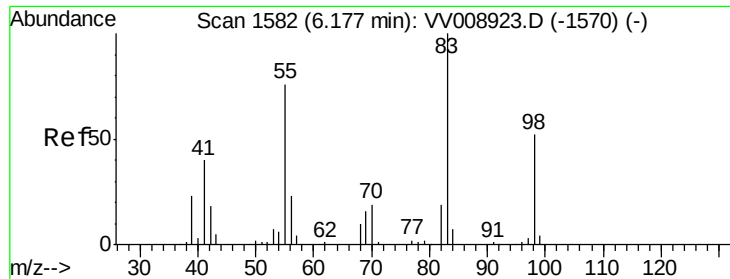
Tgt Ion: 96 Resp: 995  
 Ion Ratio Lower Upper  
 96 100  
 61 1654.8 119.1 221.3#  
 63 12328.2 96.0 178.2#



#34  
 Trichloroethene  
 Concen: 2.057 ug/L  
 RT: 5.96 min Scan# 1516  
 Delta R.T. 0.00 min  
 Lab File: VV008940.D  
 Acq: 14 Dec 2018 19:29

Tgt Ion: 95 Resp: 3161  
 Ion Ratio Lower Upper  
 95 100  
 97 61.4 45.7 84.9  
 132 91.8 72.2 134.2  
 130 109.5 73.8 137.2

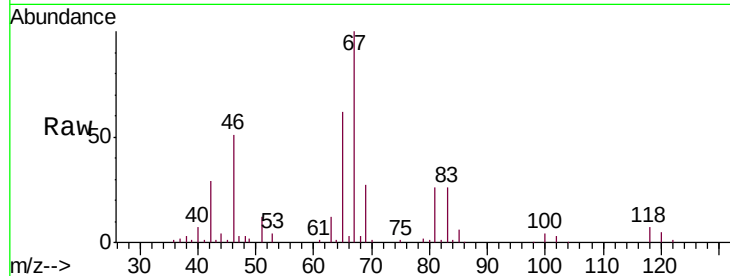




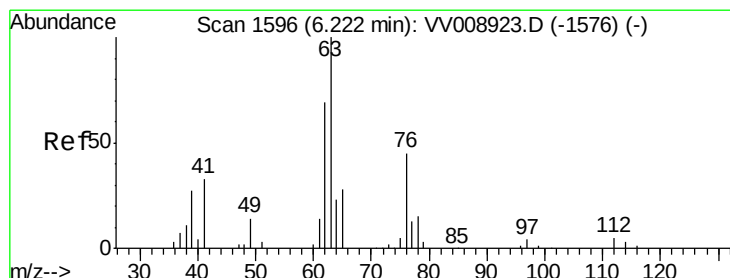
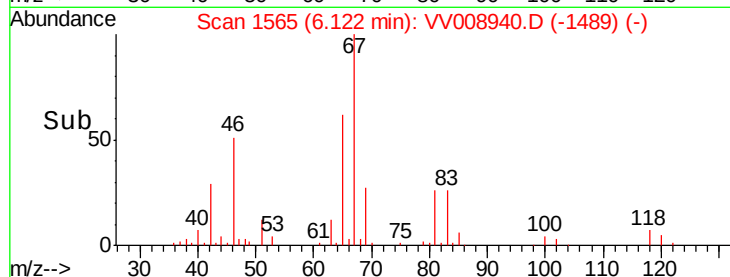
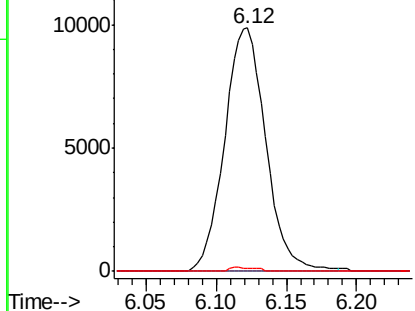
#35  
Methylcyclohexane  
Concen: 8.842 ug/L  
RT: 6.12 min Scan# 1565  
Delta R.T. -0.05 min  
Lab File: VV008940.D  
Acq: 14 Dec 2018 19:29

Instrument :  
MSVOA\_V  
ClientSampled :  
COL62

Tgt Ion: 83 Resp: 20151  
Ion Ratio Lower Upper  
83 100  
55 0.0 57.8 86.8#  
98 0.7 39.0 58.4#

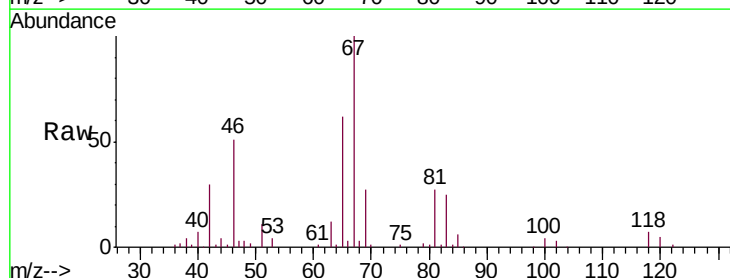


Abundance Ion 83.00 (82.70 to 83.70): VV0  
Ion 55.00 (54.70 to 55.70): VV0  
Ion 98.00 (97.70 to 98.70): VV0

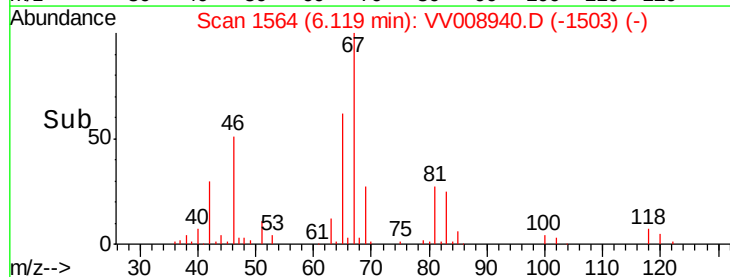
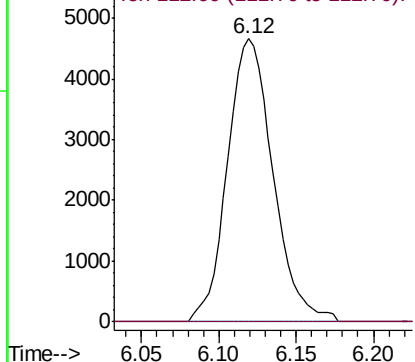


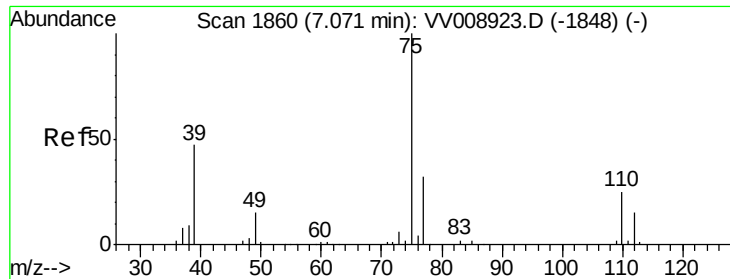
#37  
1,2-Dichloropropane  
Concen: 6.935 ug/L  
RT: 6.12 min Scan# 1564  
Delta R.T. -0.10 min  
Lab File: VV008940.D  
Acq: 14 Dec 2018 19:29

Tgt Ion: 63 Resp: 9545  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.8 5.6#



Abundance Ion 63.00 (62.70 to 63.70): VV0  
Ion 112.00 (111.70 to 112.70): V

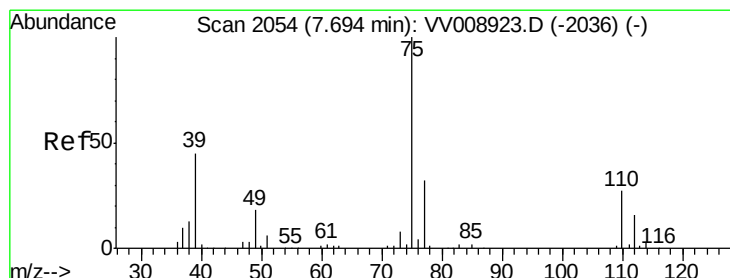
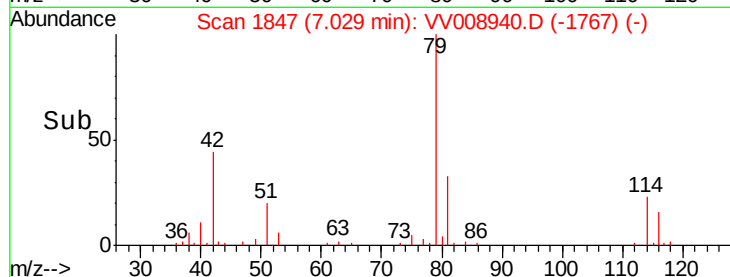
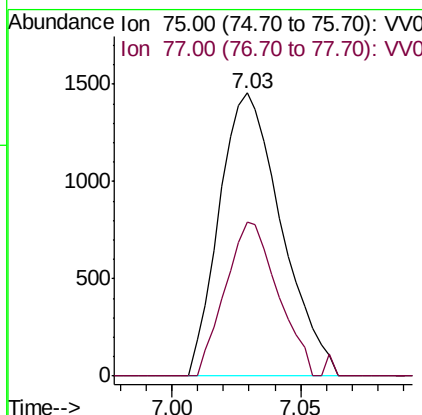
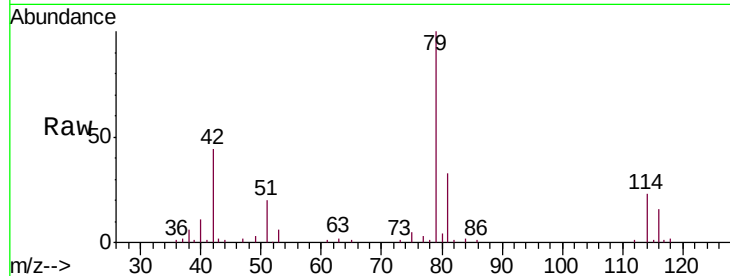




#39  
 cis-1,3-Dichloropropene  
 Concen: 1.112 ug/L  
 RT: 7.03 min Scan# 1847  
 Delta R.T. -0.04 min  
 Lab File: VV008940.D  
 Acq: 14 Dec 2018 19:29

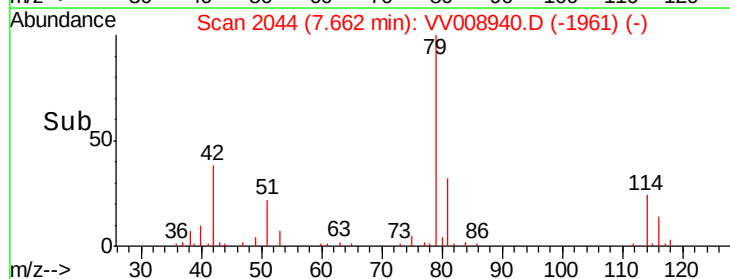
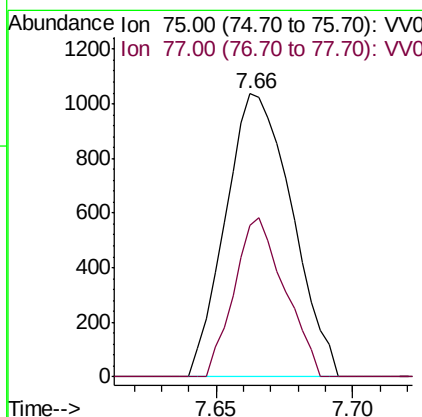
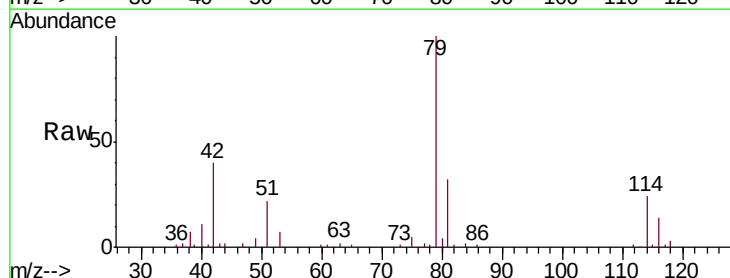
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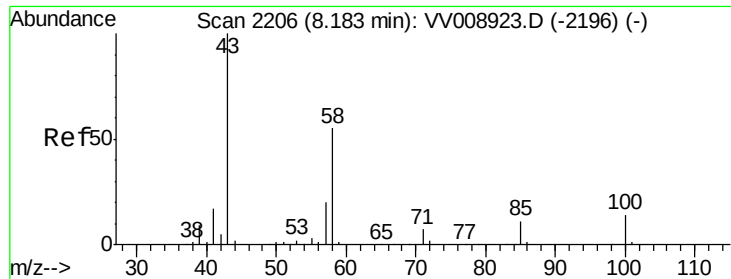
Tgt Ion: 75 Resp: 2440  
 Ion Ratio Lower Upper  
 75 100  
 77 54.5 21.8 40.4#



#44  
 trans-1,3-Dichloropropene  
 Concen: 0.858 ug/L  
 RT: 7.66 min Scan# 2044  
 Delta R.T. -0.03 min  
 Lab File: VV008940.D  
 Acq: 14 Dec 2018 19:29

Tgt Ion: 75 Resp: 1756  
 Ion Ratio Lower Upper  
 75 100  
 77 53.7 21.6 40.2#

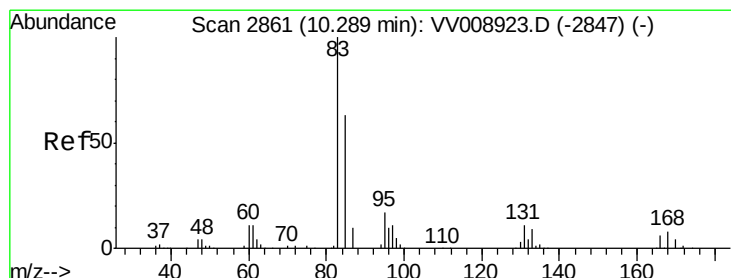
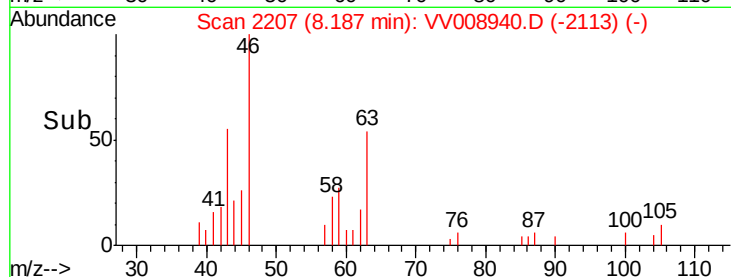
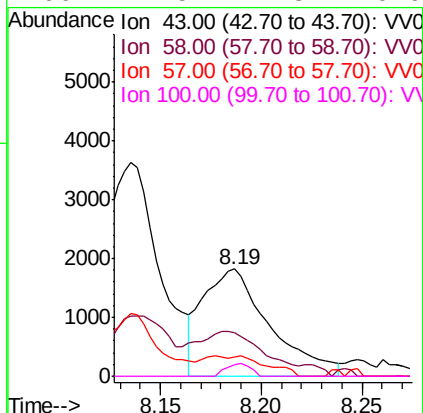
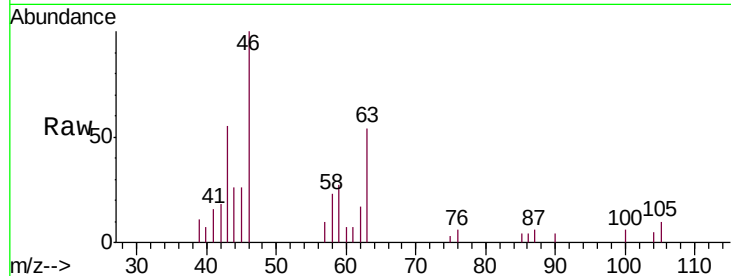




#48  
 2-Hexanone  
 Concen: 3.166 ug/L  
 RT: 8.19 min Scan# 2207  
 Delta R.T. 0.00 min  
 Lab File: VV008940.D  
 Acq: 14 Dec 2018 19:29

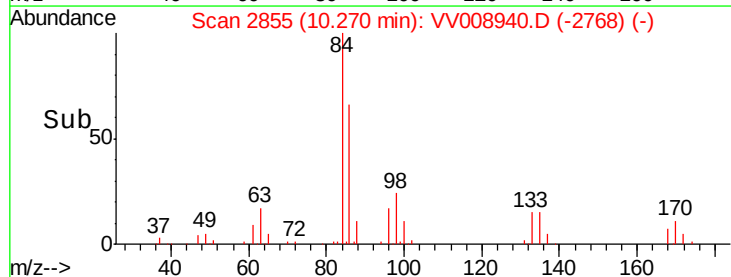
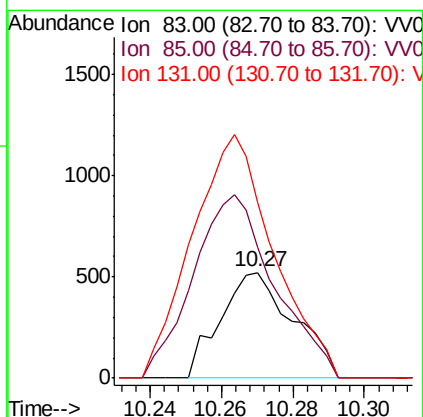
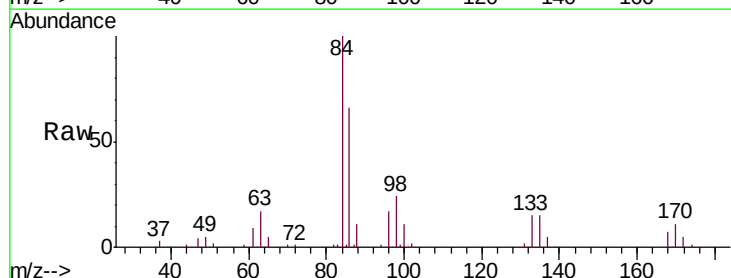
Instrument :  
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 ClientSampled :  
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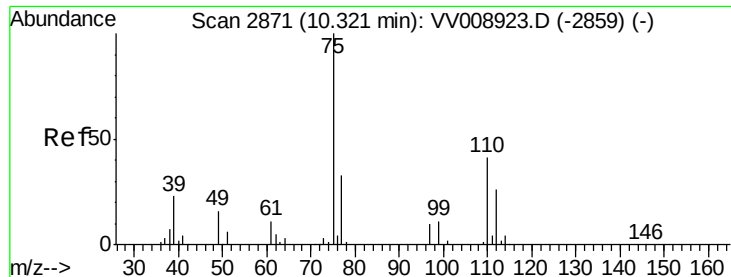
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 Ion Ratio Lower Upper  
 43 100  
 58 31.4 42.7 64.1#  
 57 1.6 15.7 23.5#  
 100 4.5 11.3 16.9#



#58  
 1,1,2,2-Tetrachloroethane  
 Concen: 0.360 ug/L  
 RT: 10.27 min Scan# 2855  
 Delta R.T. -0.02 min  
 Lab File: VV008940.D  
 Acq: 14 Dec 2018 19:29

Tgt Ion: 83 Resp: 738  
 Ion Ratio Lower Upper  
 83 100  
 85 124.5 45.3 84.1#  
 131 166.1 9.2 13.8#





#59

1,2,3-Trichloropropane

Concen: 5.011 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.97 min

Lab File: VV008940.D

Acq: 14 Dec 2018 19:29

Instrument :

MSVOA\_V

ClientSampleId :

C0L62

Tgt Ion: 75 Resp: 8685

Ion Ratio Lower Upper

75 100

77 36.4 25.8 38.8

