

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100118\  
 Data File : VV008007.D  
 Acq On : 01 Oct 2018 20:59  
 Operator : SY/MD  
 Sample : J5159-11  
 Misc : 25.0 mL/MSVOA V/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 GAC97

Quant Time: Oct 02 04:18:58 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR092718WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Oct 02 04:17:24 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 87258    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 82945    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 40350    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 23797    | 5.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 101.80% |
| 7) Chloroethane-d5             | 1.59   | 69    | 20467    | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 101.20% |
| 11) 1,1-Dichloroethene-d2      | 2.14   | 63    | 37801    | 3.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 71.60%  |
| 20) 2-Butanone-d5              | 3.97   | 46    | 65471    | 46.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 93.06%  |
| 24) Chloroform-d               | 4.41   | 84    | 52606    | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 28377    | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.80%  |
| 32) Benzene-d6                 | 5.10   | 84    | 101960   | 5.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.00% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 32291    | 5.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 102.80% |
| 41) Toluene-d8                 | 7.36   | 98    | 94576    | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.80%  |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 10799    | 4.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 89.40%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 46732    | 43.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 87.60%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 22431    | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 92.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 39268    | 5.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 100.60% |

## Target Compounds

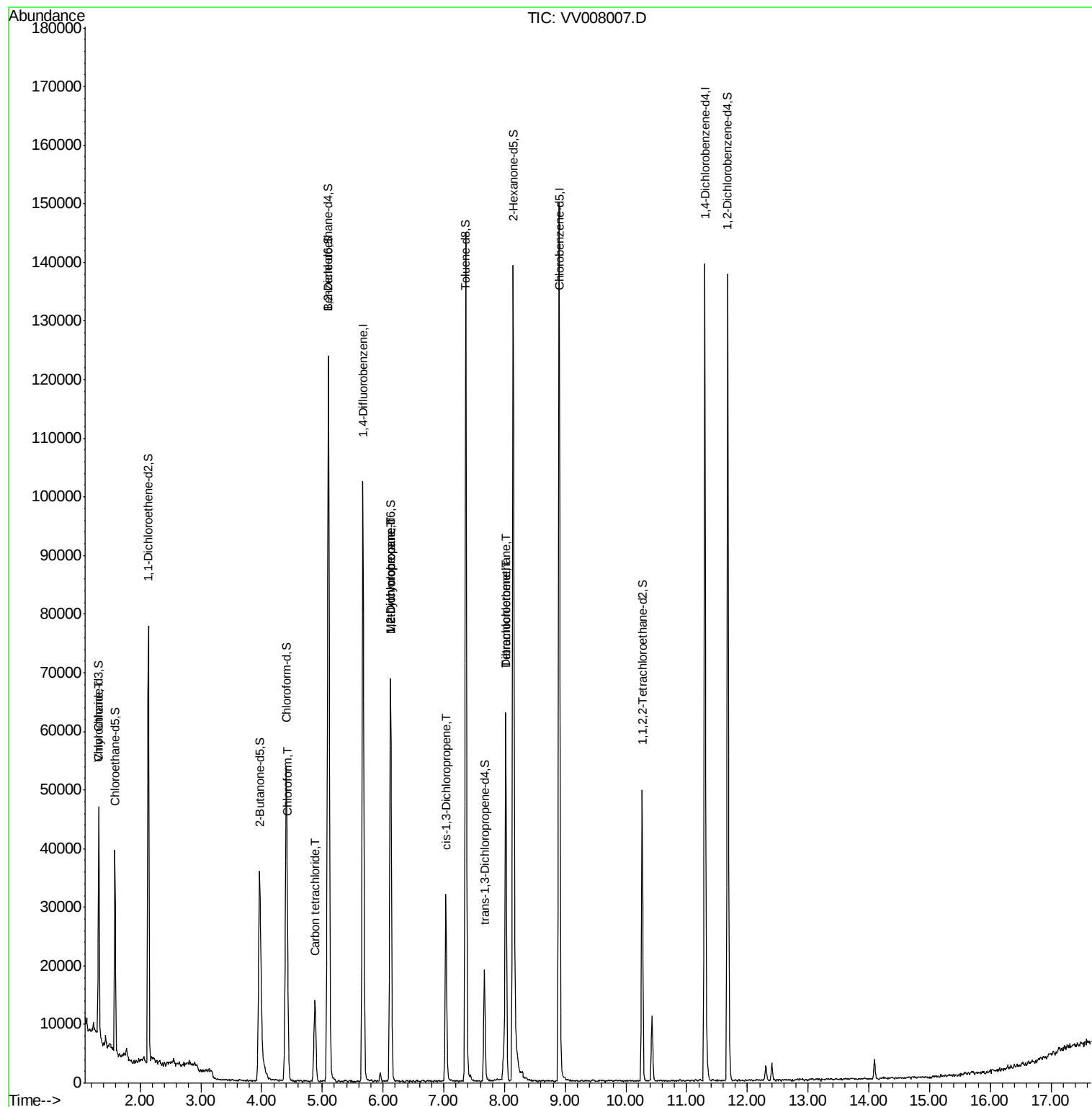
|                             |      |     |       |       | Ovalue    |
|-----------------------------|------|-----|-------|-------|-----------|
| 8) Chloroethane             | 1.32 | 64  | 344   | 0.082 | ug/L # 1  |
| 25) Chloroform              | 4.43 | 83  | 3031  | 0.258 | ug/L 95   |
| 31) Carbon tetrachloride    | 4.88 | 117 | 10430 | 1.186 | ug/L 98   |
| 35) Methylcyclohexane       | 6.13 | 83  | 7830  | 0.768 | ug/L # 18 |
| 37) 1,2-Dichloropropane     | 6.12 | 63  | 3911  | 0.645 | ug/L # 87 |
| 39) cis-1,3-Dichloropropene | 7.04 | 75  | 783   | 0.096 | ug/L # 80 |
| 47) Tetrachloroethene       | 8.02 | 164 | 14675 | 2.329 | ug/L 99   |
| 49) Dibromochloromethane    | 8.02 | 129 | 11677 | 2.336 | ug/L # 12 |

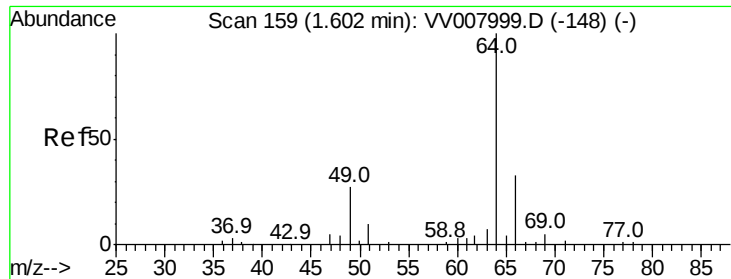
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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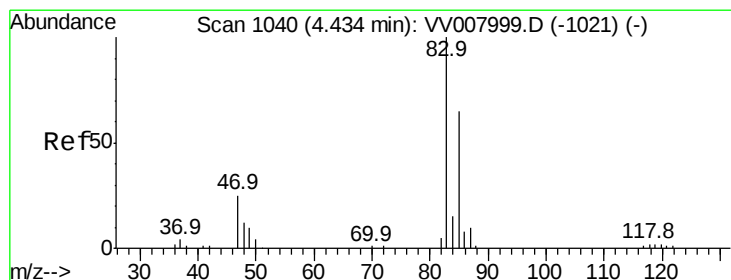
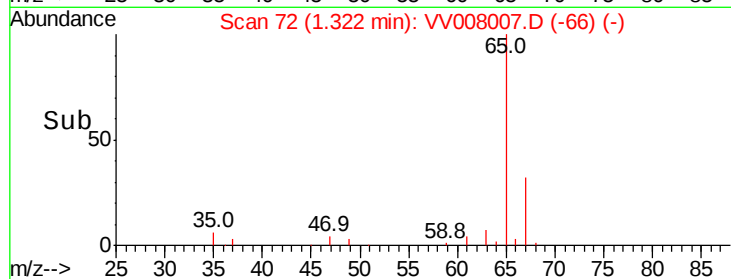
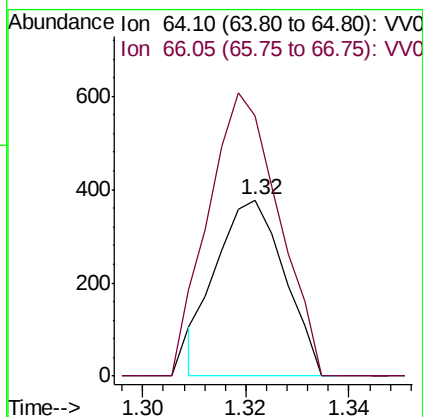
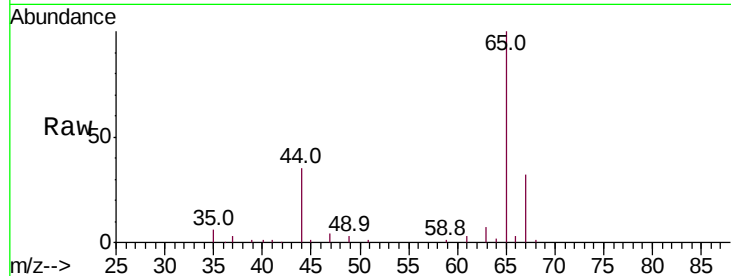




#8  
Chloroethane  
Concen: 0.082 ug/L  
RT: 1.32 min Scan# 72  
Delta R.T. -0.28 min  
Lab File: VV008007.D  
Acq: 01 Oct 2018 20:59

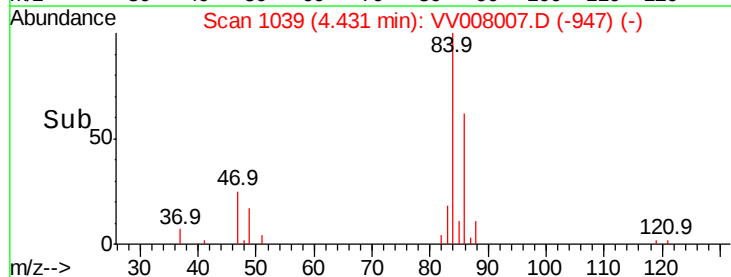
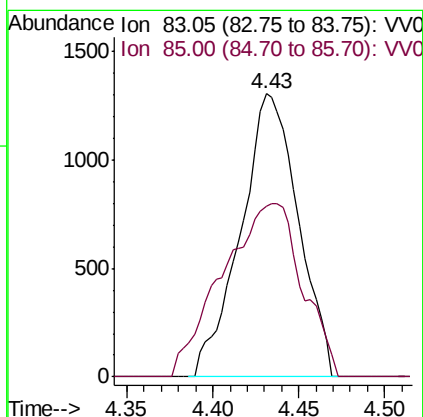
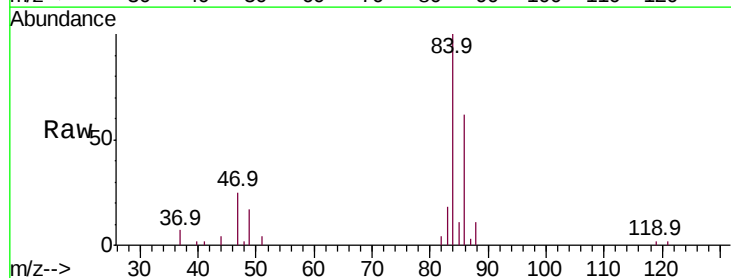
Instrument :  
MSVOA\_V  
ClientSampled :  
GAC97

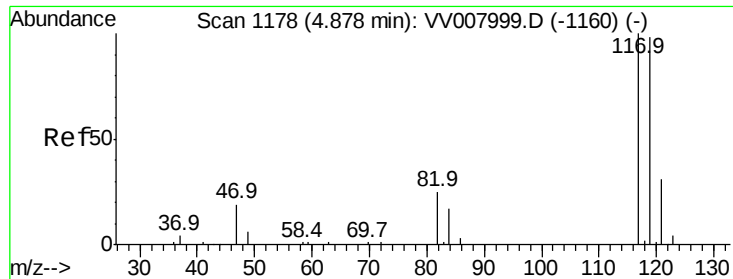
Tot Ion: 64 Resp: 344  
Ion Ratio Lower Upper  
64 100  
66 148.0 23.1 42.9#



#25  
Chloroform  
Concen: 0.258 ug/L  
RT: 4.43 min Scan# 1039  
Delta R.T. -0.00 min  
Lab File: VV008007.D  
Acq: 01 Oct 2018 20:59

Tgt Ion: 83 Resp: 3031  
Ion Ratio Lower Upper  
83 100  
85 60.3 44.8 83.2





#31

Carbon tetrachloride

Concen: 1.186 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VV008007.D

Acq: 01 Oct 2018 20:59

Instrument :

MSVOA\_V

ClientSampleId :

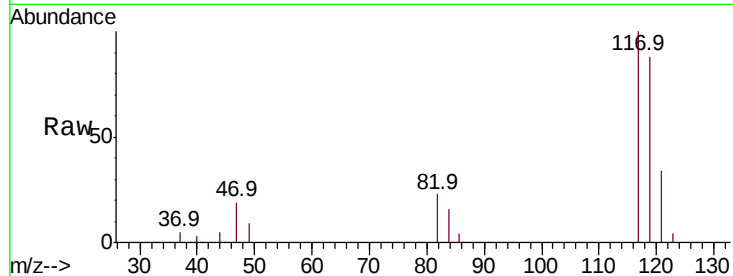
GAC97

Tot Ion:117 Resp: 10430

Ion Ratio Lower Upper

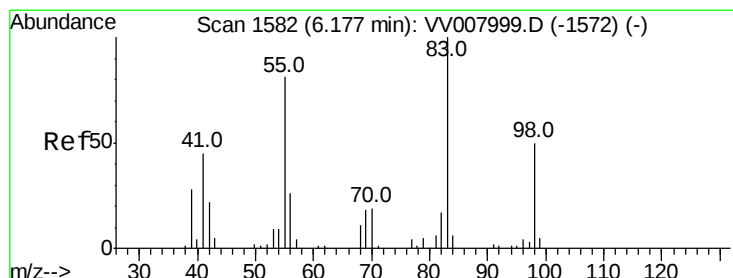
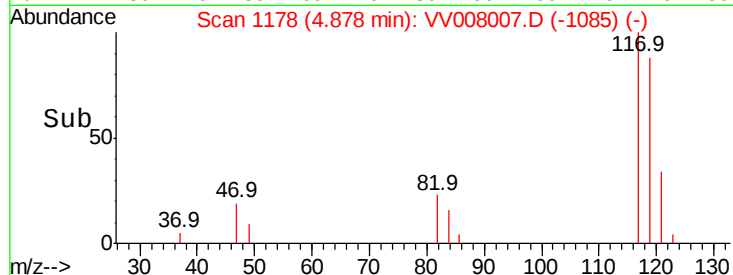
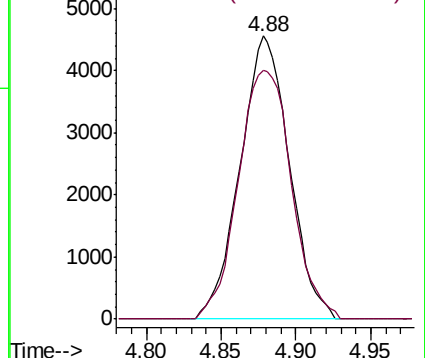
117 100

119 94.9 77.8 116.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#35

Methylcyclohexane

Concen: 0.768 ug/L

RT: 6.13 min Scan# 1566

Delta R.T. -0.05 min

Lab File: VV008007.D

Acq: 01 Oct 2018 20:59

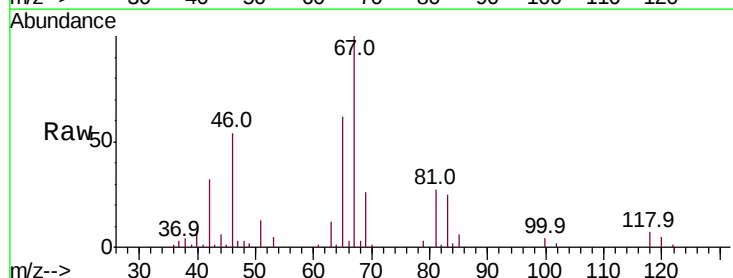
Tgt Ion: 83 Resp: 7830

Ion Ratio Lower Upper

83 100

55 0.0 62.2 93.2#

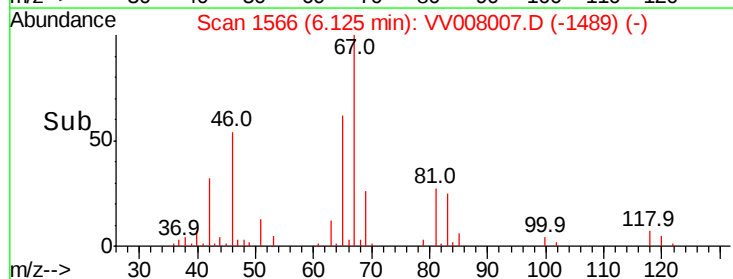
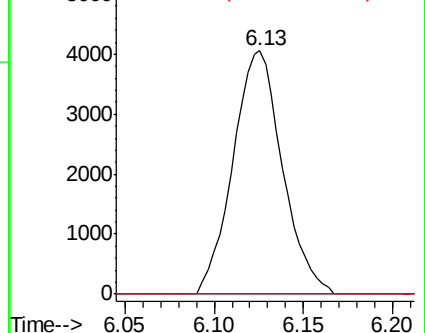
98 1.2 38.0 57.0#

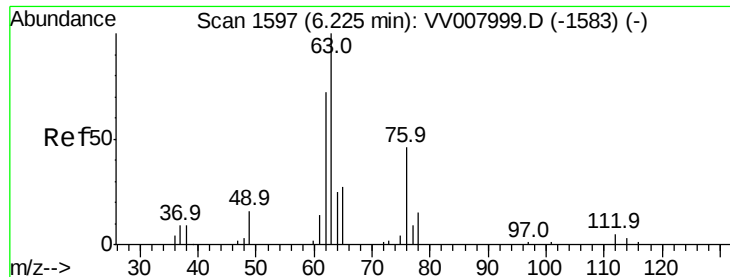


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 0.645 ug/L

RT: 6.12 min Scan# 1565

Delta R.T. -0.10 min

Lab File: VV008007.D

Acq: 01 Oct 2018 20:59

Instrument :

MSVOA\_V

ClientSampleId :

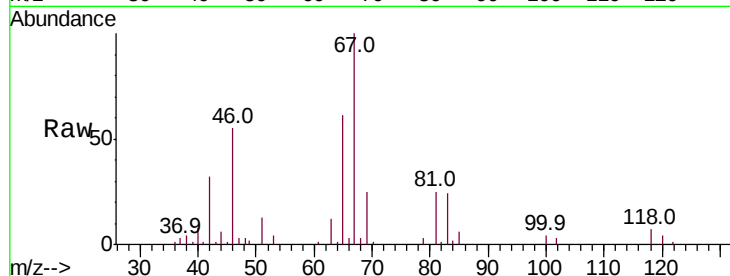
GAC97

Tot Ion: 63 Resp: 3911

Ion Ratio Lower Upper

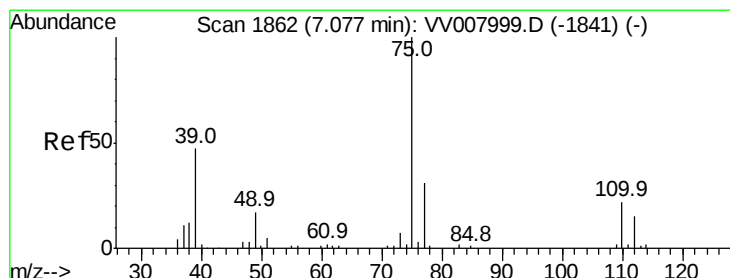
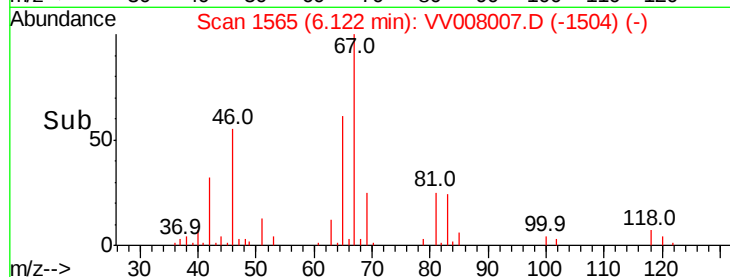
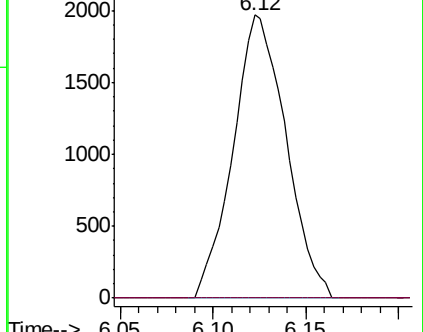
63 100

112 0.0 3.4 5.0#



Abundance Ion 63.10 (62.80 to 63.80): VV008007.D (-1565) (-)

Ion 112.10 (111.80 to 112.80): VV008007.D (-1565) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.096 ug/L

RT: 7.04 min Scan# 1849

Delta R.T. -0.04 min

Lab File: VV008007.D

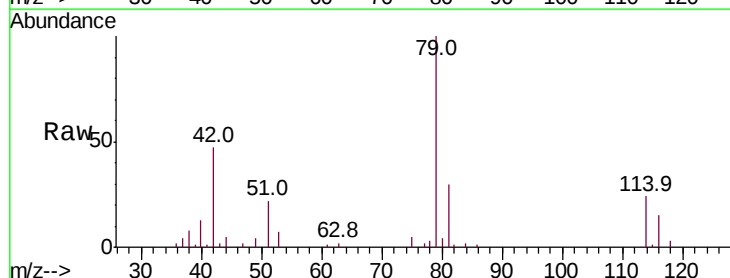
Acq: 01 Oct 2018 20:59

Tgt Ion: 75 Resp: 783

Ion Ratio Lower Upper

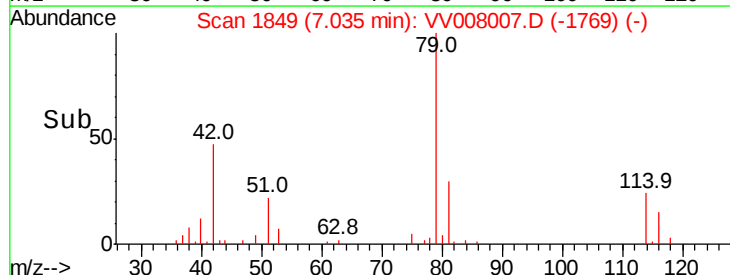
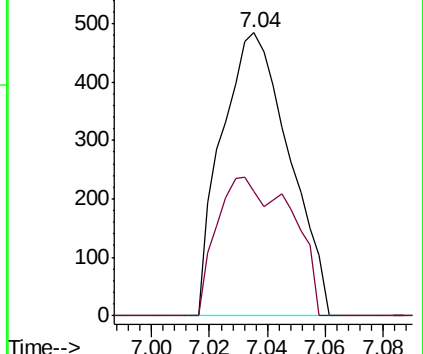
75 100

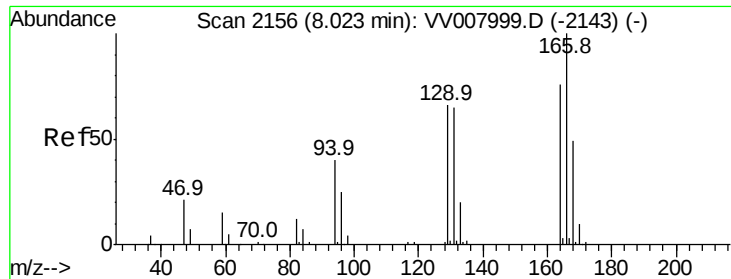
77 44.2 22.9 42.5#



Abundance Ion 75.05 (74.75 to 75.75): VV008007.D (-1849) (-)

Ion 77.05 (76.75 to 77.75): VV008007.D (-1849) (-)

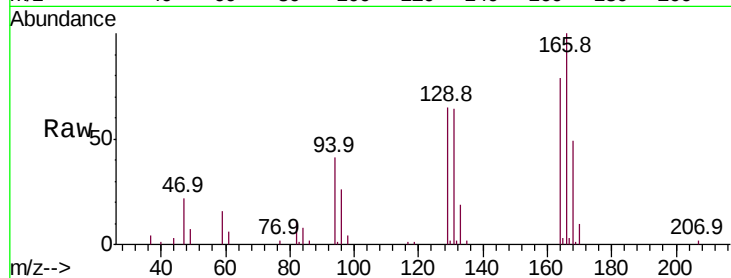




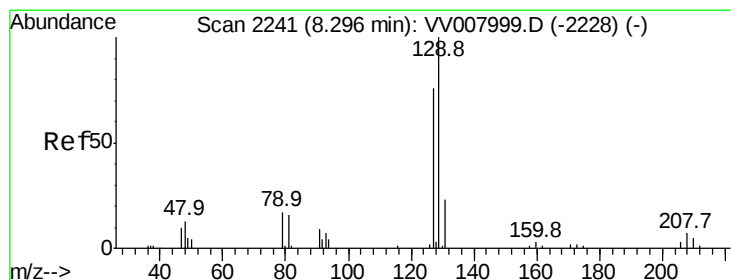
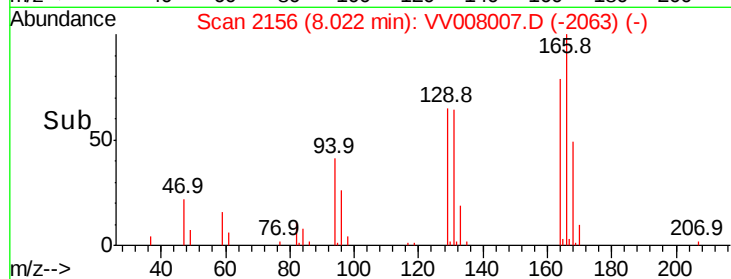
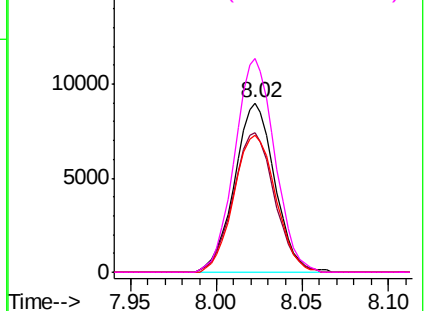
#47  
Tetrachloroethene  
Concen: 2.329 ug/L  
RT: 8.02 min Scan# 2156  
Delta R.T. -0.00 min  
Lab File: VV008007.D  
Acq: 01 Oct 2018 20:59

Instrument :  
MSVOA\_V  
ClientSampleId :  
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Tot Ion:164 Resp: 14675  
Ion Ratio Lower Upper  
164 100  
129 82.5 59.2 110.0  
131 80.8 57.1 106.1  
166 126.0 88.6 164.6

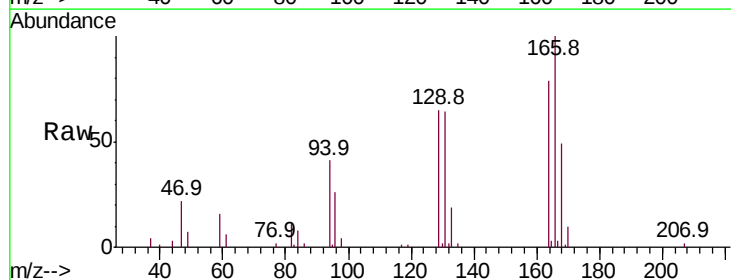


Abundance Ion 163.90 (163.60 to 164.60): V  
Ion 128.95 (128.65 to 129.65): V  
Ion 130.95 (130.65 to 131.65): V  
Ion 165.90 (165.60 to 166.60): V



#49  
Dibromochloromethane  
Concen: 2.336 ug/L  
RT: 8.02 min Scan# 2156  
Delta R.T. -0.27 min  
Lab File: VV008007.D  
Acq: 01 Oct 2018 20:59

Tgt Ion:129 Resp: 11677  
Ion Ratio Lower Upper  
129 100  
127 0.0 53.1 98.5#



Abundance Ion 128.95 (128.65 to 129.65): V  
Ion 126.90 (126.60 to 127.60): V

