

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY112420\  
 Data File : VY003601.D  
 Acq On : 24 Nov 2020 13:47  
 Operator : SY/MD  
 Sample : L4860-07  
 Misc : 5.12G/10ML/MSVOA Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Nov 25 06:03:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SOM2YLM111920S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 25 06:01:46 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.69  | 114  | 202977   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.49 | 117  | 186255   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 84929    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.25   | 65    | 59061    | 26.40    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 105.60% |
| 7) Chloroethane-d5             | 2.77   | 69    | 48184    | 23.21    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.84%  |
| 10) 1,1-Dichloroethene-d2      | 3.85   | 63    | 98695    | 17.85    | ug/L | -0.01   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 71.40%  |
| 20) 2-Butanone-d5              | 6.91   | 46    | 35079    | 31.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 62.20%  |
| 24) Chloroform-d               | 7.49   | 84    | 126088   | 24.44    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 97.76%  |
| 26) 1,2-Dichloroethane-d4      | 8.14   | 65    | 65304    | 22.59    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 90.36%  |
| 29) Benzene-d6                 | 8.11   | 84    | 265239   | 24.44    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 97.76%  |
| 33) 1,2-Dichloropropane-d6     | 9.13   | 67    | 79668    | 25.04    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 100.16% |
| 37) Toluene-d8                 | 10.18  | 98    | 242239   | 24.92    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 99.68%  |
| 38) trans-1,3-Dichloropropene- | 10.44  | 79    | 35426    | 22.31    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 89.24%  |
| 39) 2-Hexanone-d5              | 10.78  | 63    | 24815    | 29.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 59.98%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.56  | 84    | 53272    | 19.22    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 76.88%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.72  | 152   | 68498    | 24.99    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 99.96%  |

## Target Compounds

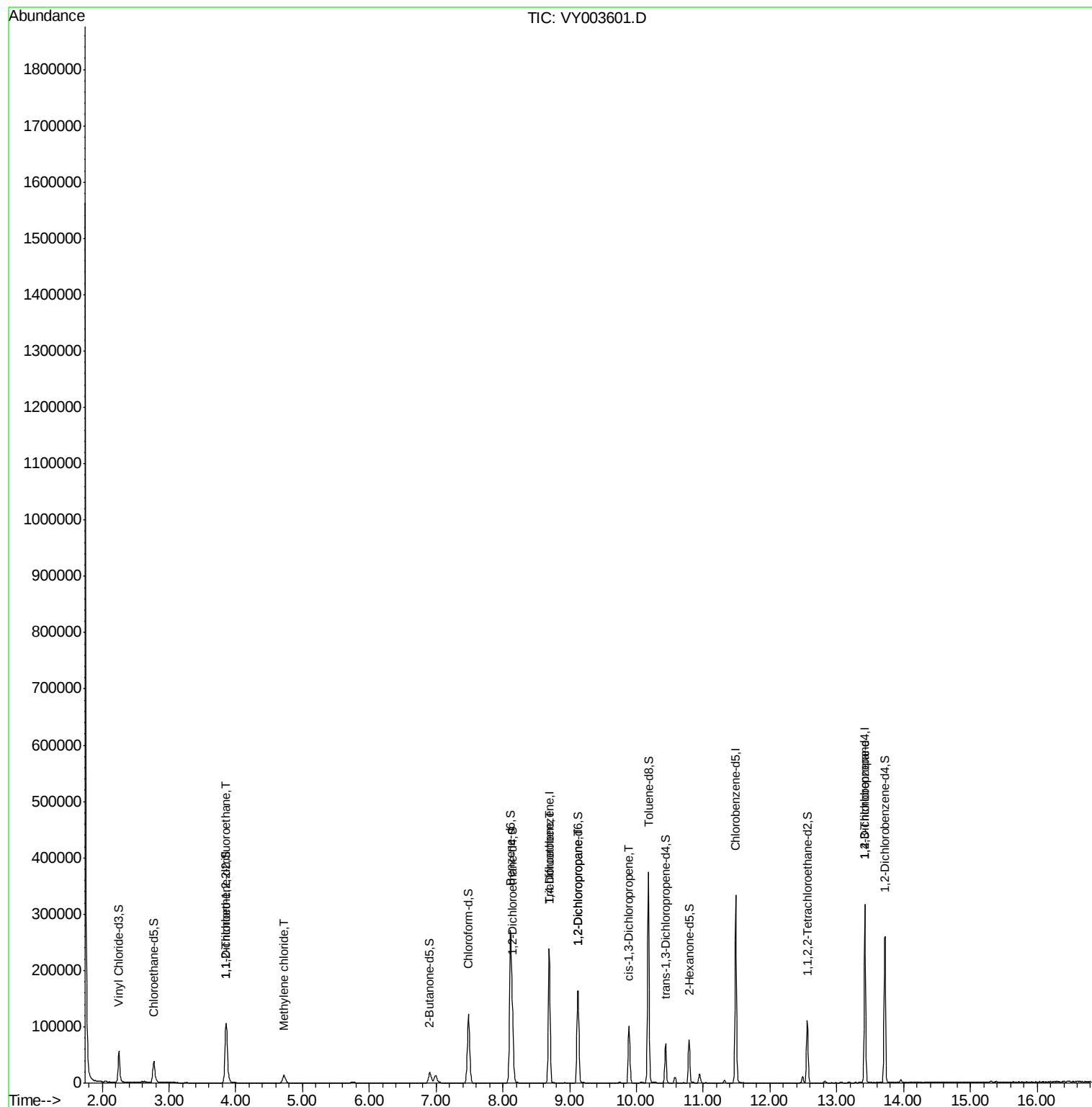
|                                |       |     |       |              | Ovalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 11) 1,1,2-Trichloro-1,2,2-trif | 3.85  | 101 | 1116  | 0.415 ug/L # | 17     |
| 16) Methylene chloride         | 4.72  | 84  | 10245 | 2.944 ug/L   | 87     |
| 35) Trichloroethene            | 8.69  | 95  | 5901  | 1.983 ug/L # | 2      |
| 40) 1,2-Dichloropropane        | 9.13  | 63  | 7826  | 2.702 ug/L # | 87     |
| 42) cis-1,3-Dichloropropene    | 9.89  | 75  | 2742  | 0.600 ug/L   | 83     |
| 59) 1,2,3-Trichloropropane     | 13.42 | 75  | 11160 | 5.250 ug/L   | 98     |

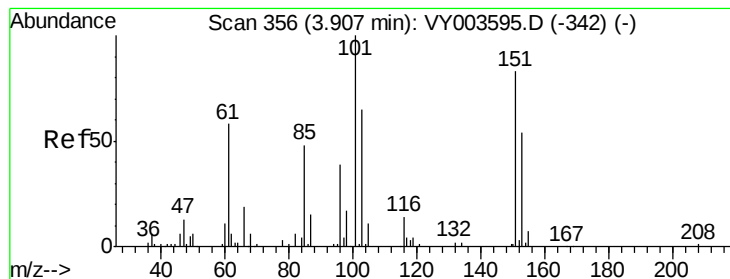
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 9 Sample Multiplier: 1

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MSVOA\_Y  
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Quant Time: Nov 25 06:03:30 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\SOM2YLM111920S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Nov 25 06:01:46 2020  
Response via : Initial Calibration





#11

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

Concen: 0.415 ug/L

RT: 3.85 min Scan# 347

Delta R.T. -0.05 min

Lab File: VY003601.D

Acq: 24 Nov 2020 13:47

Instrument :

MSVOA\_Y

ClientSampleId :

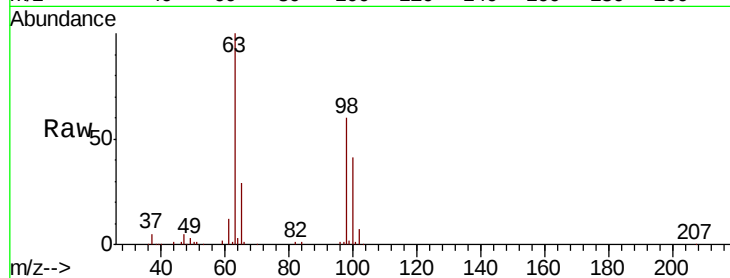
Tot Ion:101 Resp: 1116

Ion Ratio Lower Upper

101 100

85 0.0 35.0 52.4#

151 0.0 65.4 98.0#



Abundance Ion 101.00 (100.70 to 101.70): VY003595.D (-342) (-)

Ion 85.00 (84.70 to 85.70): VY003595.D (-342) (-)

Ion 151.00 (150.70 to 151.70): VY003595.D (-342) (-)

3.85

400

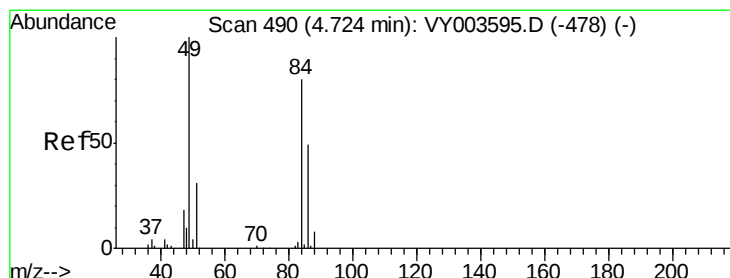
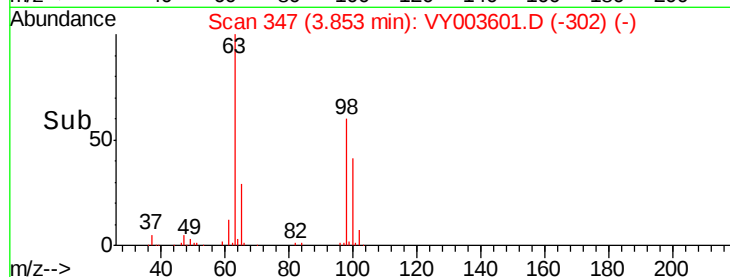
300

200

100

0

Time-->



#16

Methylene chloride

Concen: 2.944 ug/L

RT: 4.72 min Scan# 490

Delta R.T. -0.00 min

Lab File: VY003601.D

Acq: 24 Nov 2020 13:47

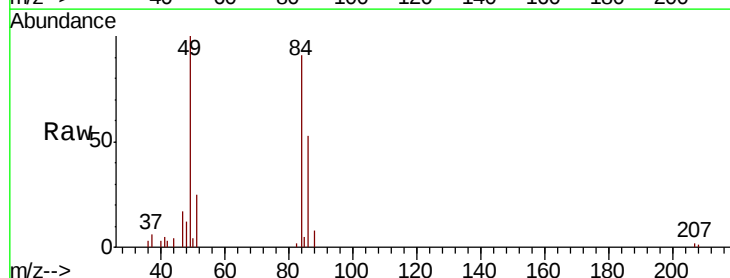
Tgt Ion: 84 Resp: 10245

Ion Ratio Lower Upper

84 100

49 109.8 90.3 167.7

86 58.3 44.7 83.1



Abundance Ion 84.00 (83.70 to 84.70): VY003595.D (-478) (-)

Ion 49.00 (48.70 to 49.70): VY003595.D (-478) (-)

Ion 86.00 (85.70 to 86.70): VY003595.D (-478) (-)

4.72

5000

4000

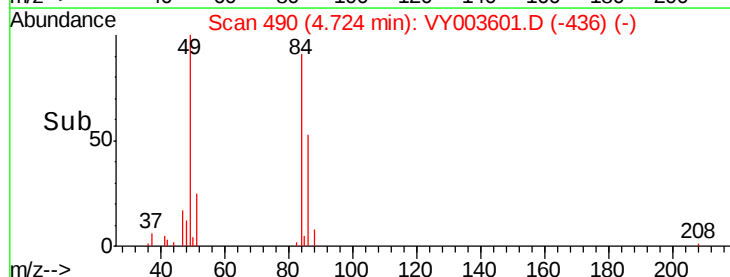
3000

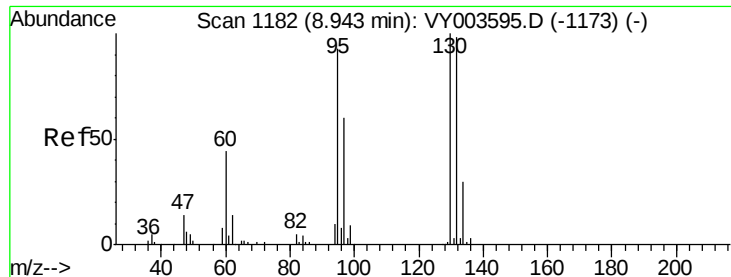
2000

1000

0

Time-->

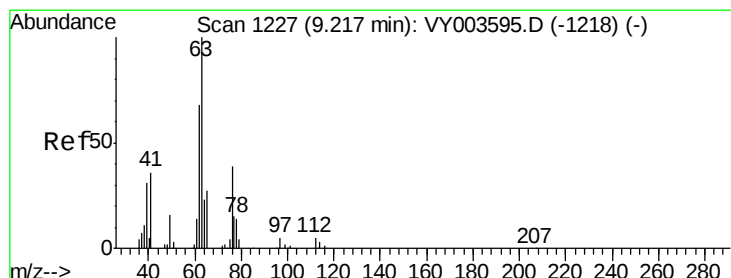
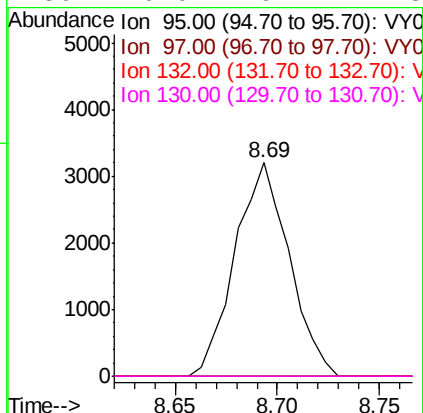
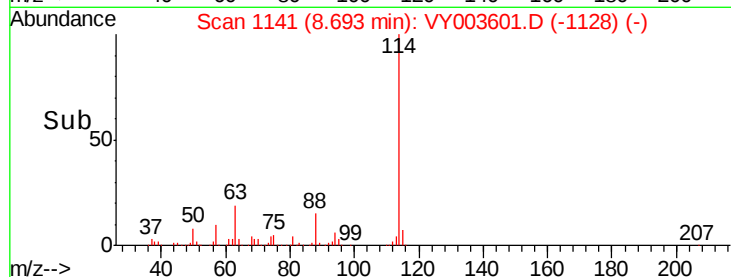
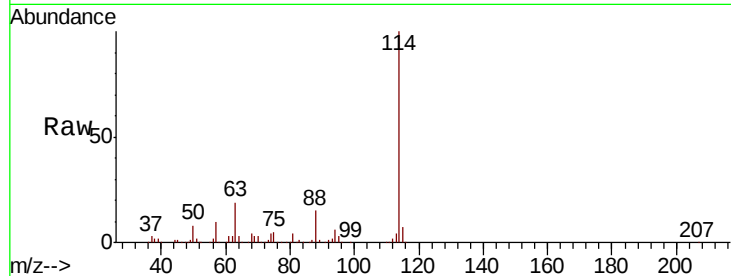




#35  
 Trichloroethene  
 Concen: 1.983 ug/L  
 RT: 8.69 min Scan# 1141  
 Delta R.T. -0.25 min  
 Lab File: VY003601.D  
 Acq: 24 Nov 2020 13:47

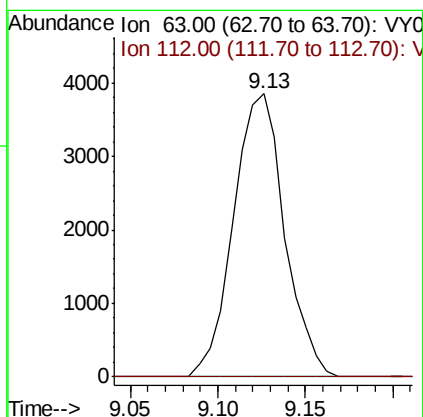
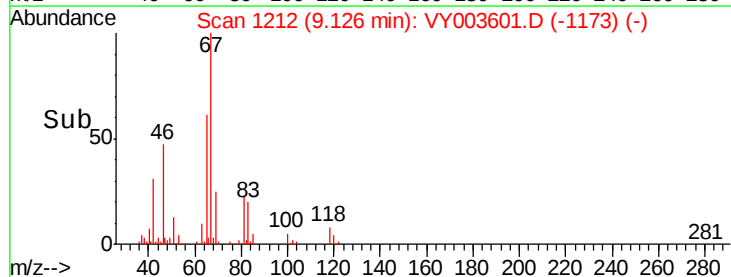
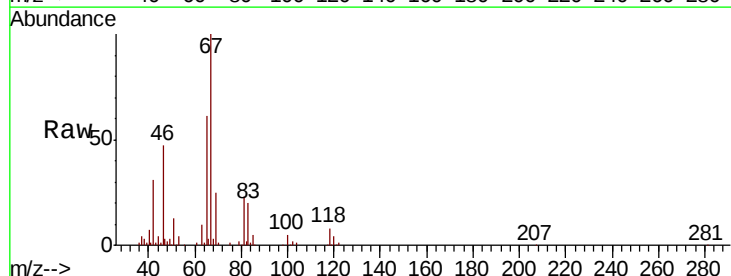
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

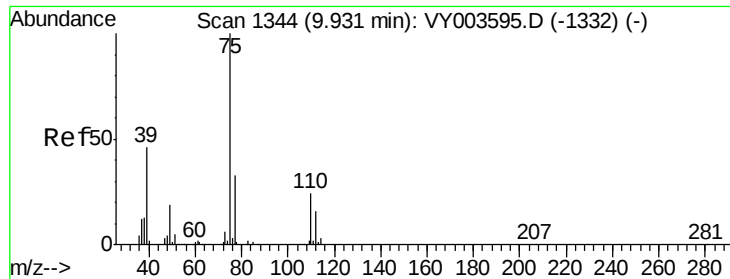
| Tot Ion | Ion | Ratio | Lower  | Upper |
|---------|-----|-------|--------|-------|
| 95      | 100 |       |        |       |
| 97      | 0.0 | 44.5  | 82.7#  |       |
| 132     | 0.0 | 73.1  | 135.7# |       |
| 130     | 0.0 | 76.1  | 141.3# |       |



#40  
 1,2-Dichloropropane  
 Concen: 2.702 ug/L  
 RT: 9.13 min Scan# 1212  
 Delta R.T. -0.09 min  
 Lab File: VY003601.D  
 Acq: 24 Nov 2020 13:47

| Tgt Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 63      | 100 |       |       |       |
| 112     | 0.0 | 3.5   | 5.3#  |       |



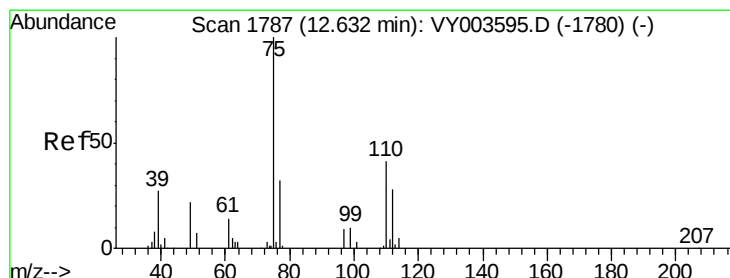
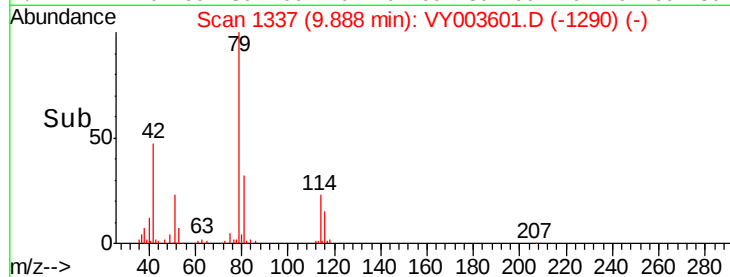
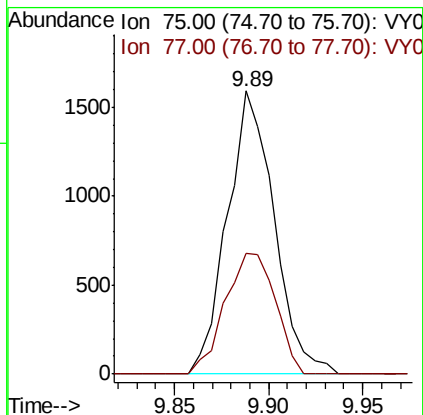
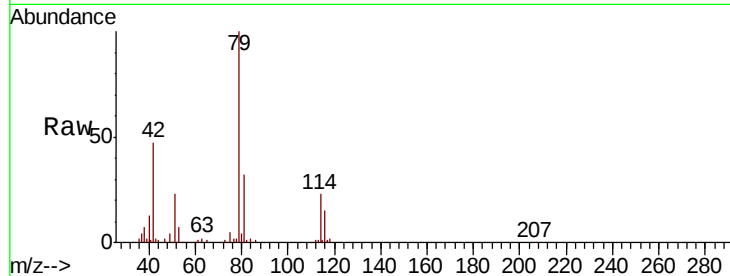


#42

cis-1,3-Dichloropropene  
 Concen: 0.600 ug/L  
 RT: 9.89 min Scan# 1337  
 Delta R.T. -0.04 min  
 Lab File: VY003601.D  
 Acq: 24 Nov 2020 13:47

Instrument :  
 MSVOA\_Y  
 ClientSampled :

Tot Ion: 75 Resp: 2742  
 Ion Ratio Lower Upper  
 75 100  
 77 42.7 23.2 43.0



#59

1,2,3-Trichloropropane  
 Concen: 5.250 ug/L  
 RT: 13.42 min Scan# 1917  
 Delta R.T. 0.79 min  
 Lab File: VY003601.D  
 Acq: 24 Nov 2020 13:47

Tgt Ion: 75 Resp: 11160  
 Ion Ratio Lower Upper  
 75 100  
 77 31.5 26.2 39.2

