

Data File : VV009764.D  
Acq On : 18 Mar 2019 17:24  
Operator : SY/MD  
Sample : K1967-04  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C09B6

Quant Time: Mar 19 04:34:49 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Mar 18 12:32:58 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 131498   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 124861   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 51302    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 40346    | 45.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 91.02%  |
| 7) Chloroethane-d5             | 1.55    | 69    | 33696    | 51.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 103.02% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 68096    | 36.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 72.14%  |
| 21) 2-Butanone-d5              | 3.93    | 46    | 54442    | 103.09   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.09% |
| 24) Chloroform-d               | 4.40    | 84    | 77149    | 47.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.72%  |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 50620    | 51.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.40% |
| 32) Benzene-d6                 | 5.10    | 84    | 166620   | 51.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.14% |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 50986    | 51.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 102.66% |
| 41) Toluene-d8                 | 7.36    | 98    | 159950   | 50.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.90% |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 22609    | 48.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.26%  |
| 47) 2-Hexanone-d5              | 8.13    | 63    | 41727    | 103.21   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 103.21% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 74462    | 49.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 98.82%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 54369    | 52.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 104.74% |

#### Target Compounds

|                                |       |     |      |       | Qvalue |    |
|--------------------------------|-------|-----|------|-------|--------|----|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12  | 101 | 581  | 0.642 | ug/L # | 19 |
| 37) 1,2-Dichloropropane        | 6.12  | 63  | 5549 | 6.385 | ug/L # | 86 |
| 39) cis-1,3-Dichloropropene    | 7.03  | 75  | 1558 | 1.174 | ug/L # | 44 |
| 44) trans-1,3-Dichloropropene  | 7.66  | 75  | 1214 | 0.966 | ug/L   | 83 |
| 48) 2-Hexanone                 | 8.13  | 43  | 4517 | 5.318 | ug/L # | 68 |
| 51) Chlorobenzene              | 8.93  | 112 | 8410 | 3.298 | ug/L   | 94 |
| 59) 1,2,3-Trichloropropane     | 11.30 | 75  | 8300 | 7.259 | ug/L   | 94 |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146 | 1867 | 1.109 | ug/L   | 86 |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146 | 7494 | 4.414 | ug/L   | 91 |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146 | 4350 | 2.533 | ug/L   | 92 |
| 67) 1,3,5-Trichlorobenzene     | 13.31 | 180 | 5731 | 5.354 | ug/L   | 99 |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180 | 5731 | 7.639 | ug/L   | 97 |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180 | 1010 | 1.343 | ug/L # | 89 |

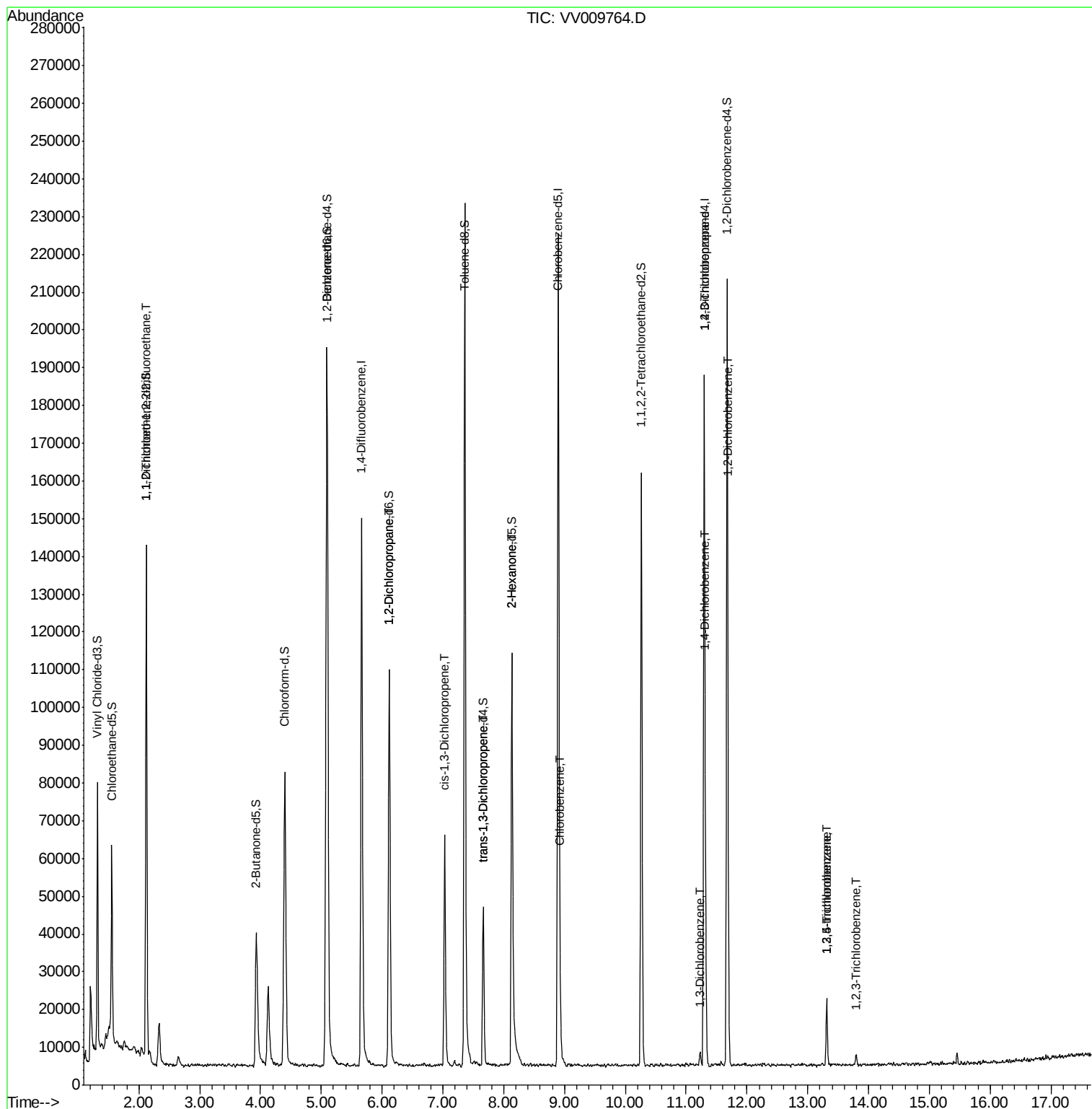
(#) = qualifier out of range (m) = manual integration (+) = signals summed

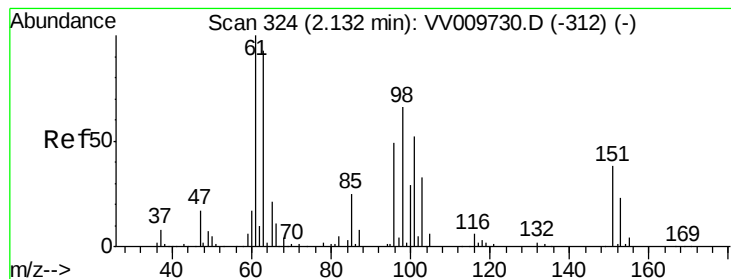
Data File : VV009764.D

```
Acq On       : 18 Mar 2019   17:24
Operator    : SY/MD
Sample      : K1967-04
Misc       : 5.0mL/MSVOA_V/WATER
ALS Vial    : 17   Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
C09B6

Quant Time: Mar 19 04:34:49 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Mar 18 12:32:58 2019  
Response via : Initial Calibration





#10

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

Concen: 0.642 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV009764.D

Acq: 18 Mar 2019 17:24

Instrument :

MSVOA\_V

ClientSampleId :

C09B6

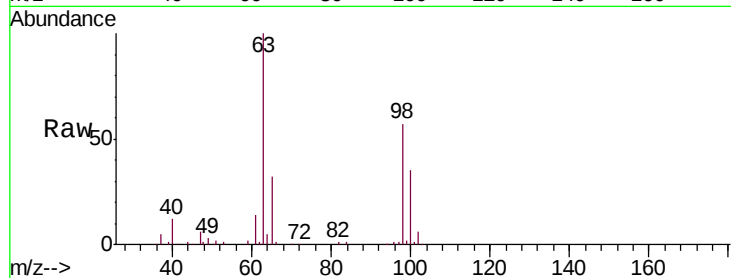
Tgt Ion: 101 Resp: 581

Ion Ratio Lower Upper

101 100

85 0.0 38.5 57.7#

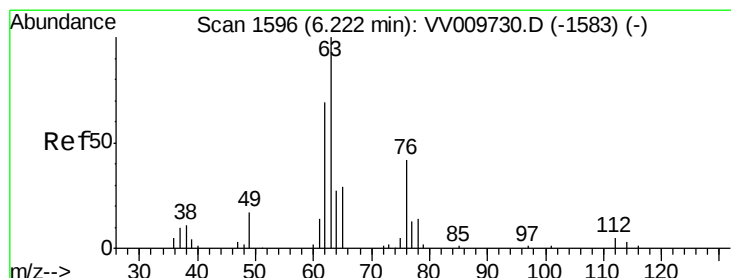
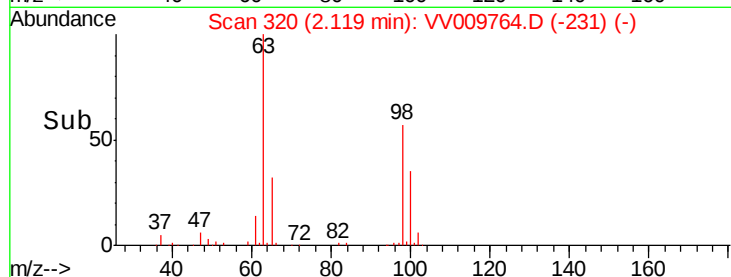
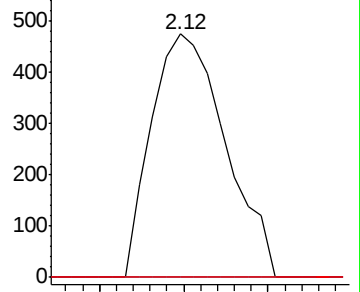
151 0.0 58.9 88.3#



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



#37

1,2-Dichloropropane

Concen: 6.385 ug/L

RT: 6.12 min Scan# 1563

Delta R.T. -0.10 min

Lab File: VV009764.D

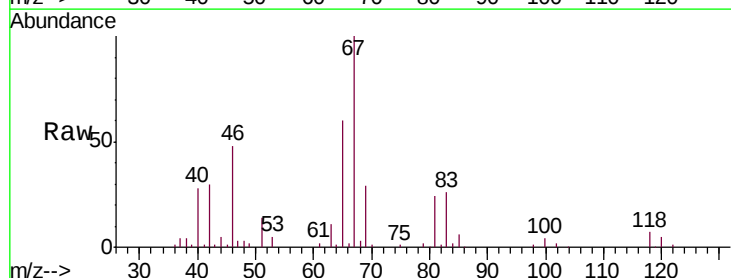
Acq: 18 Mar 2019 17:24

Tgt Ion: 63 Resp: 5549

Ion Ratio Lower Upper

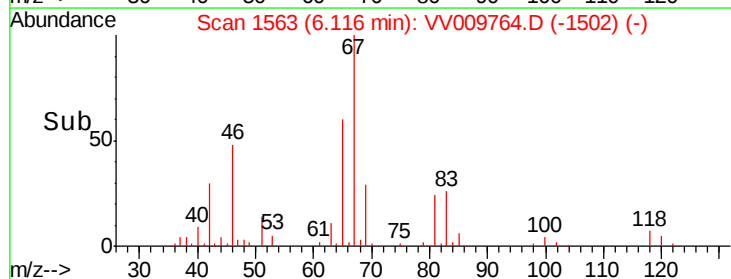
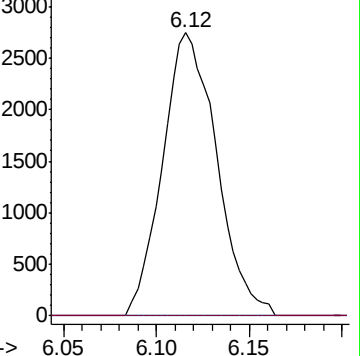
63 100

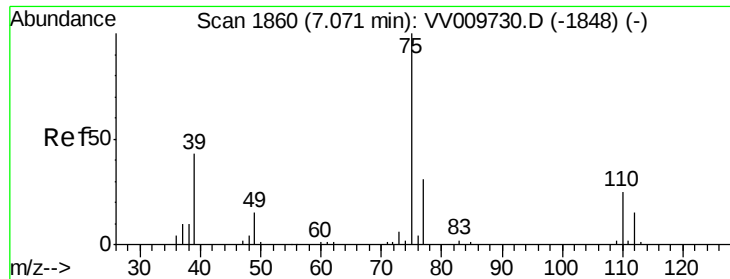
112 0.0 3.6 5.4#



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 112.00 (111.70 to 112.70): V

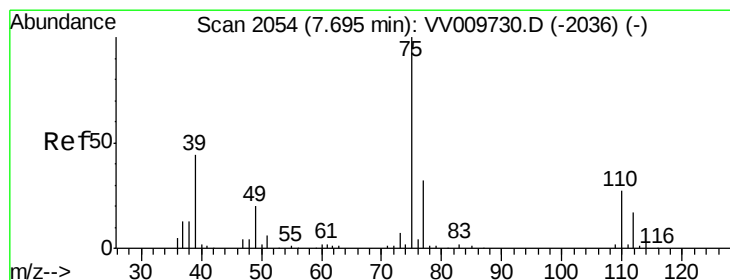
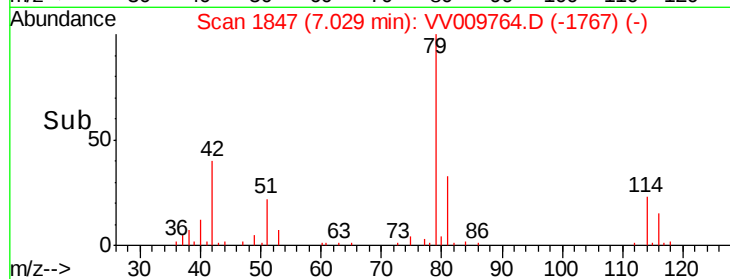
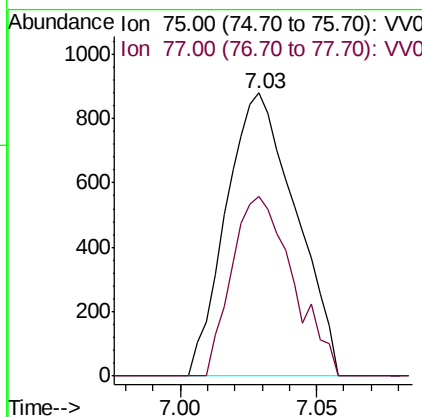
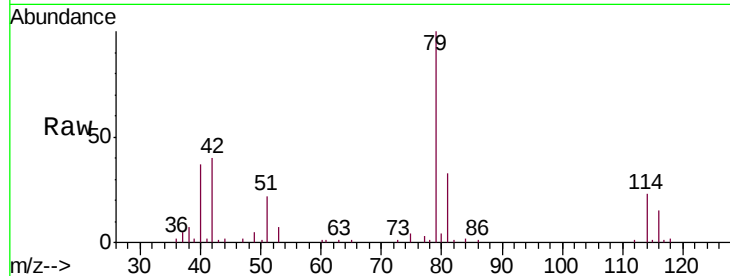




#39  
 cis-1,3-Dichloropropene  
 Concen: 1.174 ug/L  
 RT: 7.03 min Scan# 1847  
 Delta R.T. -0.04 min  
 Lab File: VV009764.D  
 Acq: 18 Mar 2019 17:24

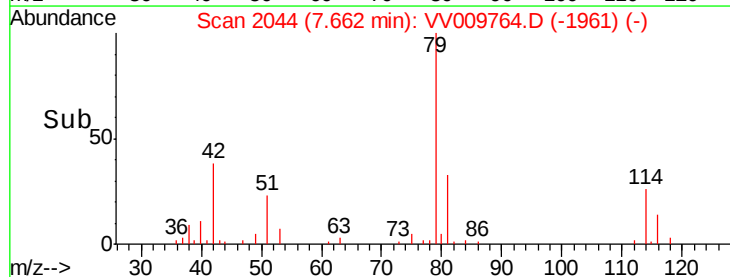
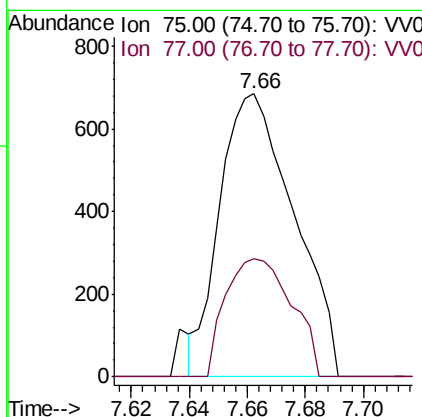
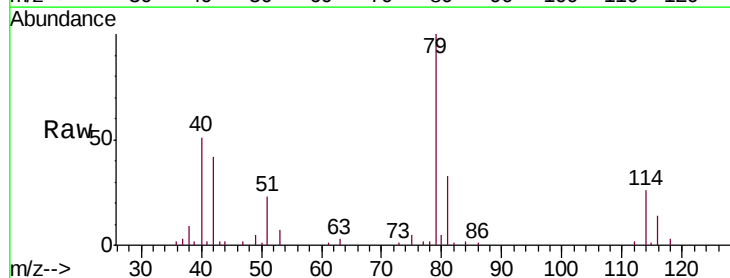
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C09B6

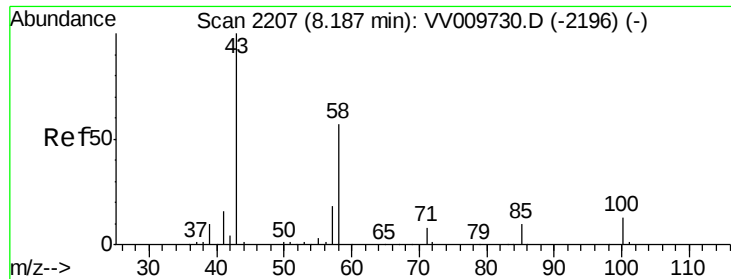
Tgt Ion: 75 Resp: 1558  
 Ion Ratio Lower Upper  
 75 100  
 77 63.4 22.4 41.6#



#44  
 trans-1,3-Dichloropropene  
 Concen: 0.966 ug/L  
 RT: 7.66 min Scan# 2044  
 Delta R.T. -0.03 min  
 Lab File: VV009764.D  
 Acq: 18 Mar 2019 17:24

Tgt Ion: 75 Resp: 1214  
 Ion Ratio Lower Upper  
 75 100  
 77 41.6 22.5 41.7

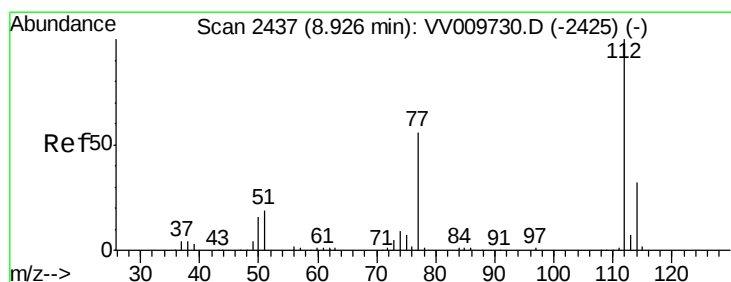
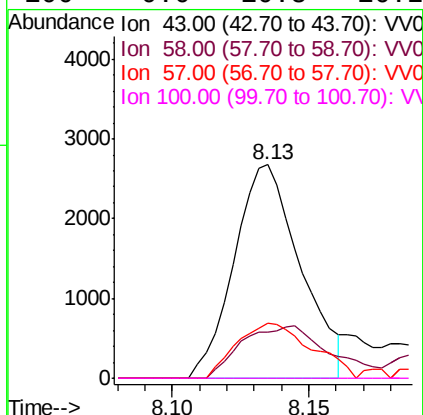
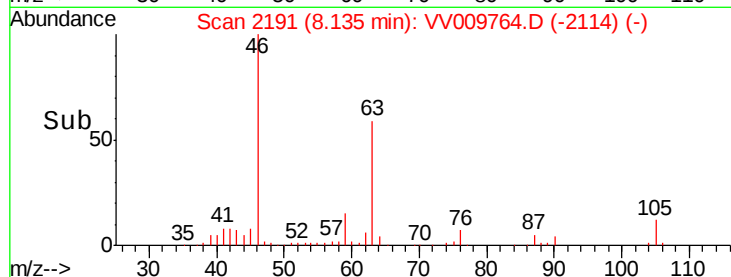
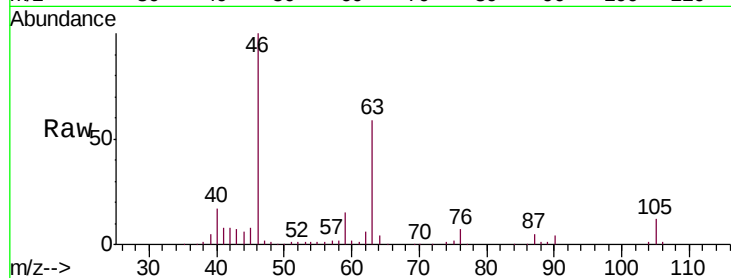




#48  
2-Hexanone  
Concen: 5.318 ug/L  
RT: 8.13 min Scan# 2191  
Delta R.T. -0.05 min  
Lab File: VV009764.D  
Acq: 18 Mar 2019 17:24

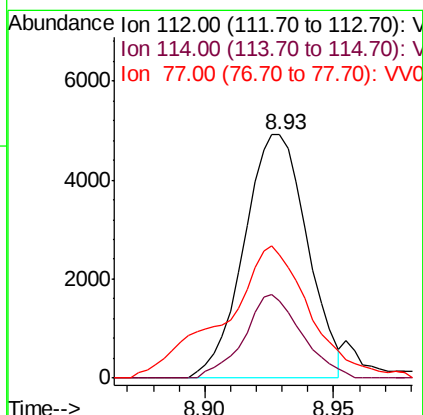
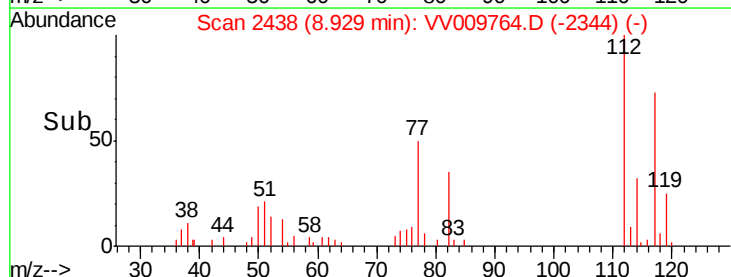
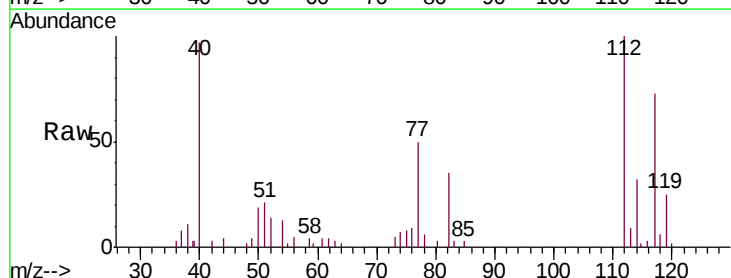
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MSVOA\_V  
ClientSampleId :  
C09B6

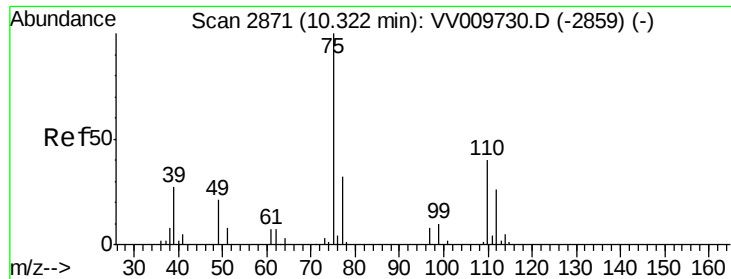
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4517  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 32.7  | 46.0  | 69.0# |
| 57       | 29.1  | 14.8  | 22.2# |
| 100      | 0.0   | 10.8  | 16.2# |



#51  
Chlorobenzene  
Concen: 3.298 ug/L  
RT: 8.93 min Scan# 2438  
Delta R.T. 0.00 min  
Lab File: VV009764.D  
Acq: 18 Mar 2019 17:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 8410  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 114      | 31.7  | 22.5  | 41.9  |
| 77       | 50.4  | 45.4  | 68.2  |

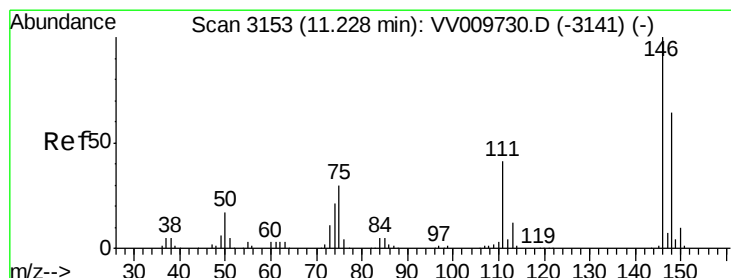
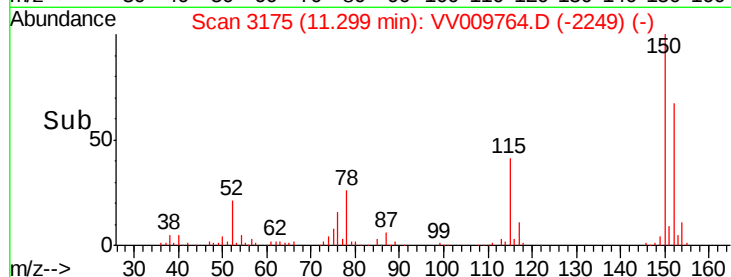
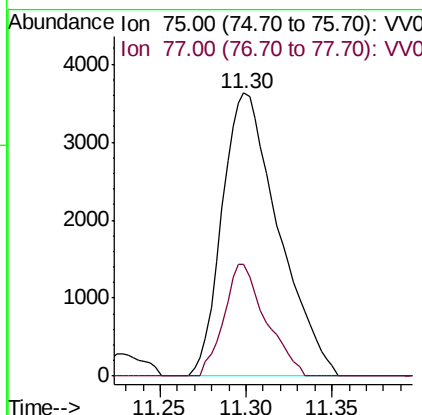
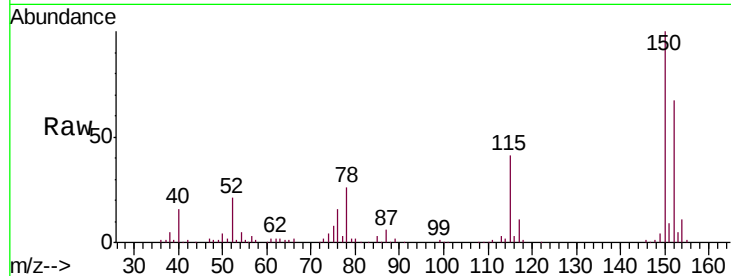




#59  
 1,2,3-Trichloropropane  
 Concen: 7.259 ug/L  
 RT: 11.30 min Scan# 3175  
 Delta R.T. 0.98 min  
 Lab File: VV009764.D  
 Acq: 18 Mar 2019 17:24

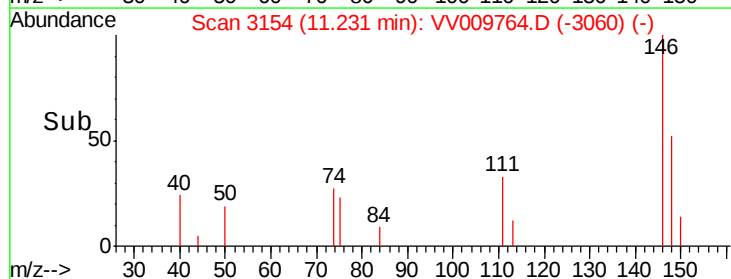
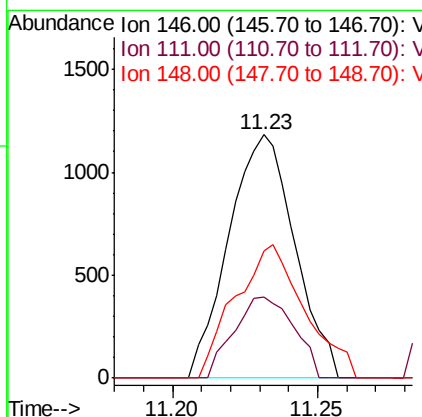
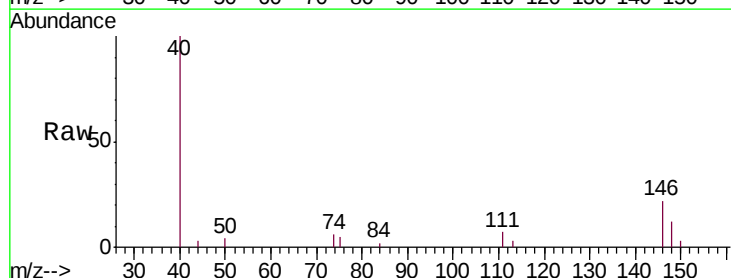
Instrument :  
 MSVOA\_V  
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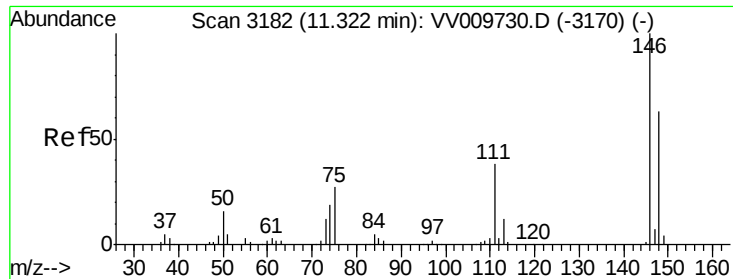
Tgt Ion: 75 Resp: 8300  
 Ion Ratio Lower Upper  
 75 100  
 77 29.4 26.2 39.4



#62  
 1,3-Dichlorobenzene  
 Concen: 1.109 ug/L  
 RT: 11.23 min Scan# 3154  
 Delta R.T. 0.00 min  
 Lab File: VV009764.D  
 Acq: 18 Mar 2019 17:24

Tgt Ion: 146 Resp: 1867  
 Ion Ratio Lower Upper  
 146 100  
 111 33.4 28.8 53.4  
 148 52.5 44.8 83.2

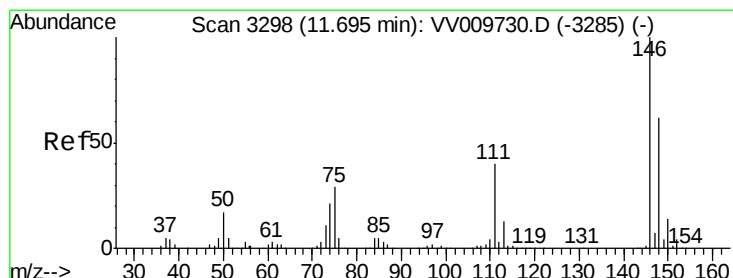
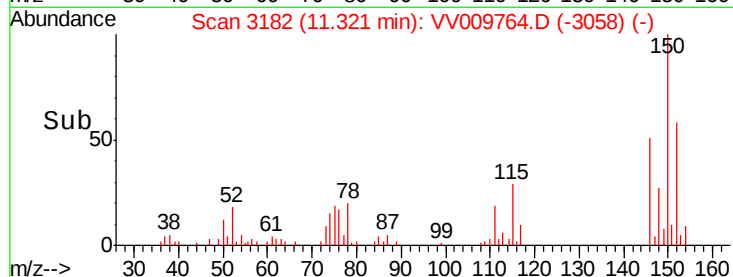
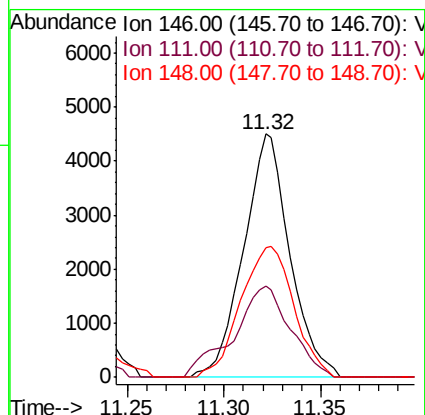
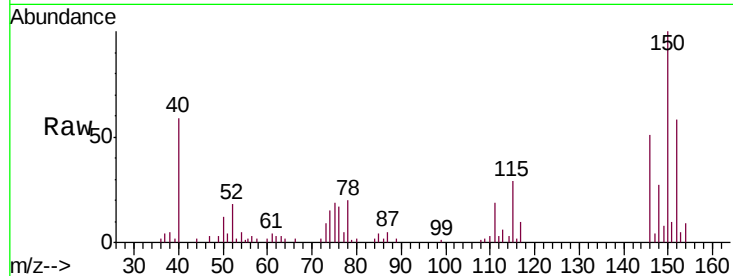




#63  
 1,4-Dichlorobenzene  
 Concen: 4.414 ug/L  
 RT: 11.32 min Scan# 3182  
 Delta R.T. -0.00 min  
 Lab File: VV009764.D  
 Acq: 18 Mar 2019 17:24

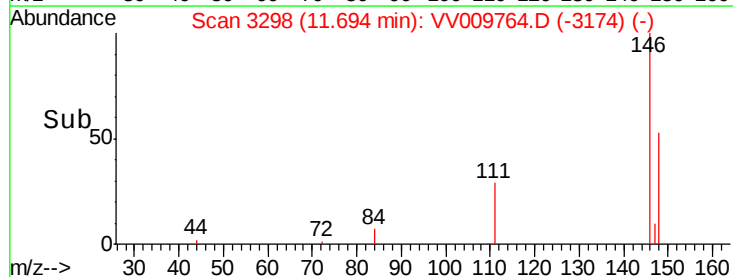
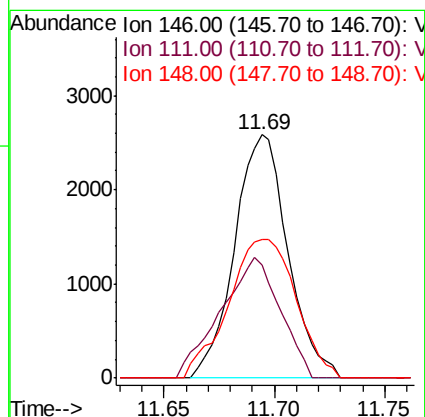
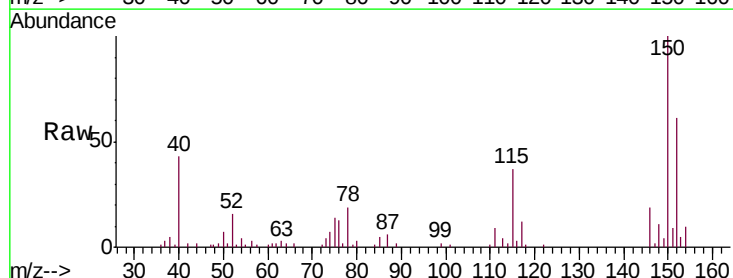
Instrument :  
 MSVOA\_V  
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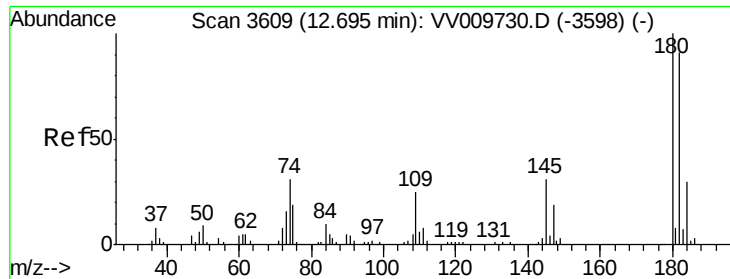
Tgt Ion:146 Resp: 7494  
 Ion Ratio Lower Upper  
 146 100  
 111 37.5 26.7 49.5  
 148 53.1 44.3 82.3



#65  
 1,2-Dichlorobenzene  
 Concen: 2.533 ug/L  
 RT: 11.69 min Scan# 3298  
 Delta R.T. -0.00 min  
 Lab File: VV009764.D  
 Acq: 18 Mar 2019 17:24

Tgt Ion:146 Resp: 4350  
 Ion Ratio Lower Upper  
 146 100  
 111 46.6 32.2 48.4  
 148 57.0 49.6 74.4

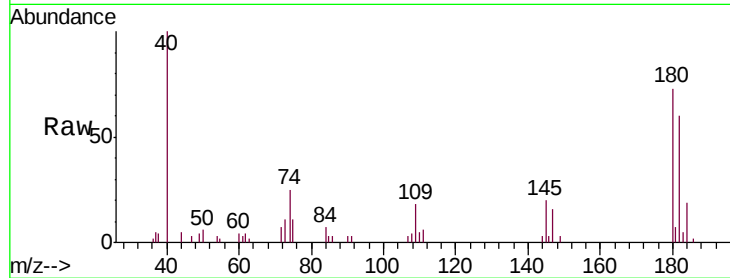




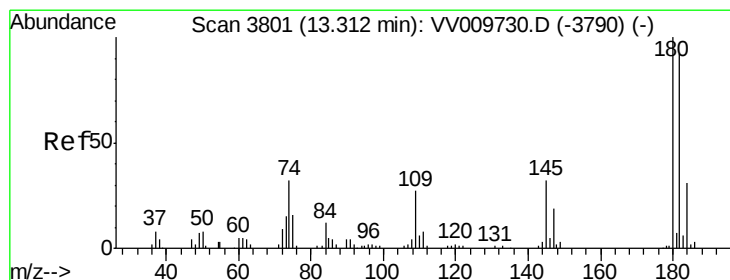
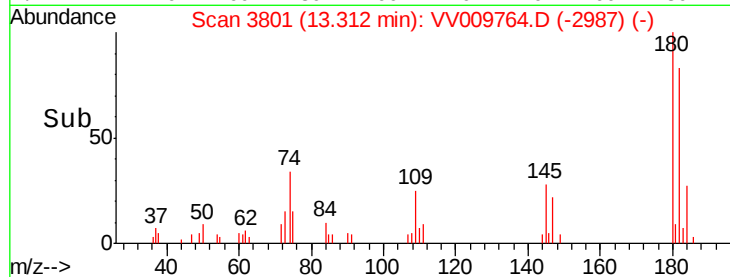
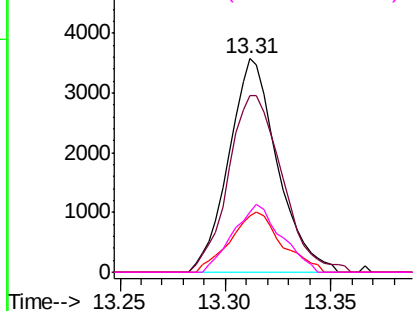
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 1,3,5-Trichlorobenzene  
 Concen: 5.354 ug/L  
 RT: 13.31 min Scan# 3801  
 Delta R.T. 0.62 min  
 Lab File: VV009764.D  
 Acq: 18 Mar 2019 17:24

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 C09B6

Tgt Ion:180 Resp: 5731  
 Ion Ratio Lower Upper  
 180 100  
 182 91.5 73.9 110.9  
 184 29.8 23.4 35.2  
 145 31.4 24.6 37.0

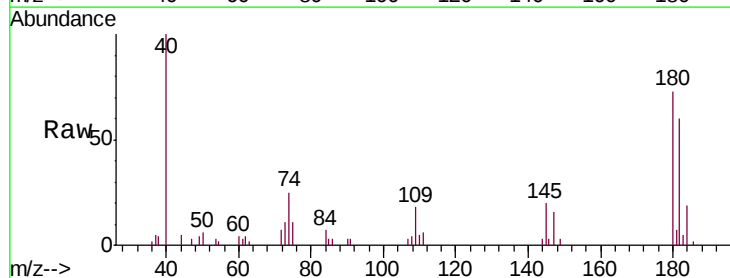


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

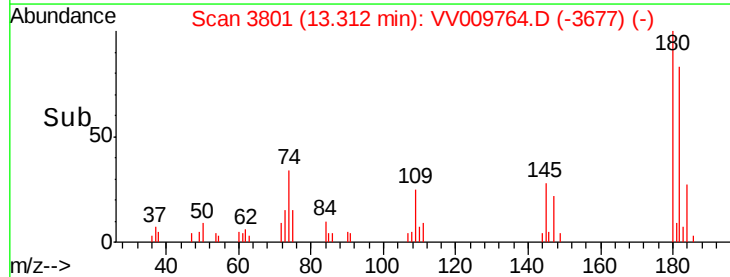
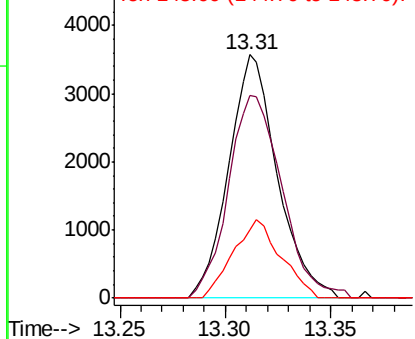


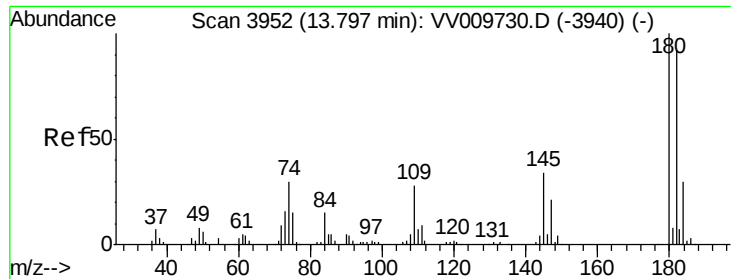
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 1,2,4-trichlorobenzene  
 Concen: 7.639 ug/L  
 RT: 13.31 min Scan# 3801  
 Delta R.T. -0.00 min  
 Lab File: VV009764.D  
 Acq: 18 Mar 2019 17:24

Tgt Ion:180 Resp: 5731  
 Ion Ratio Lower Upper  
 180 100  
 182 91.5 75.7 113.5  
 145 31.4 25.3 37.9



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V





#70

1,2,3-Trichlorobenzene

Concen: 1.343 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV009764.D

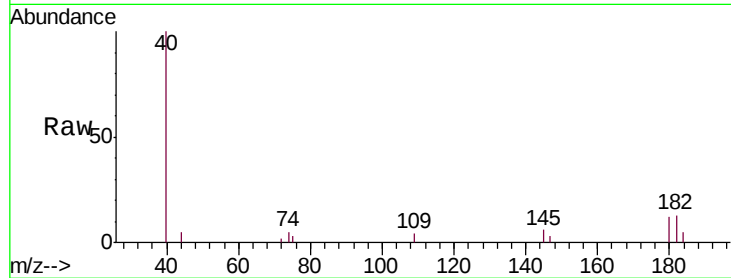
Acq: 18 Mar 2019 17:24

Instrument :

MSVOA\_V

ClientSampleId :

C09B6



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 1010  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 101.4 | 73.3  | 109.9 |
| 145      | 25.7  | 26.4  | 39.6# |

