

Data File : VU031720.D  
Acq On : 02 May 2019 18:25  
Operator : JC/SP  
Sample : K2661-07 50X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0B27

Quant Time: May 03 07:28:51 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri May 03 07:25:23 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 961934   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 893852   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 373455   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 403458   | 50.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 100.22% |
| 7) Chloroethane-d5             | 1.68    | 69    | 306831   | 49.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 98.64%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 566882   | 35.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 70.72%  |
| 21) 2-Butanone-d5              | 4.19    | 46    | 723186   | 99.14    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 99.14%  |
| 24) Chloroform-d               | 4.64    | 84    | 634261   | 43.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 86.04%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 410859   | 42.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.30%  |
| 32) Benzene-d6                 | 5.34    | 84    | 1347589  | 49.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 457715   | 47.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 94.80%  |
| 41) Toluene-d8                 | 7.56    | 98    | 1140951  | 47.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.44%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 190760   | 46.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 92.04%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 479254   | 114.66   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 114.66% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 573525   | 44.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 88.50%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 371912   | 47.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.70%  |

#### Target Compounds

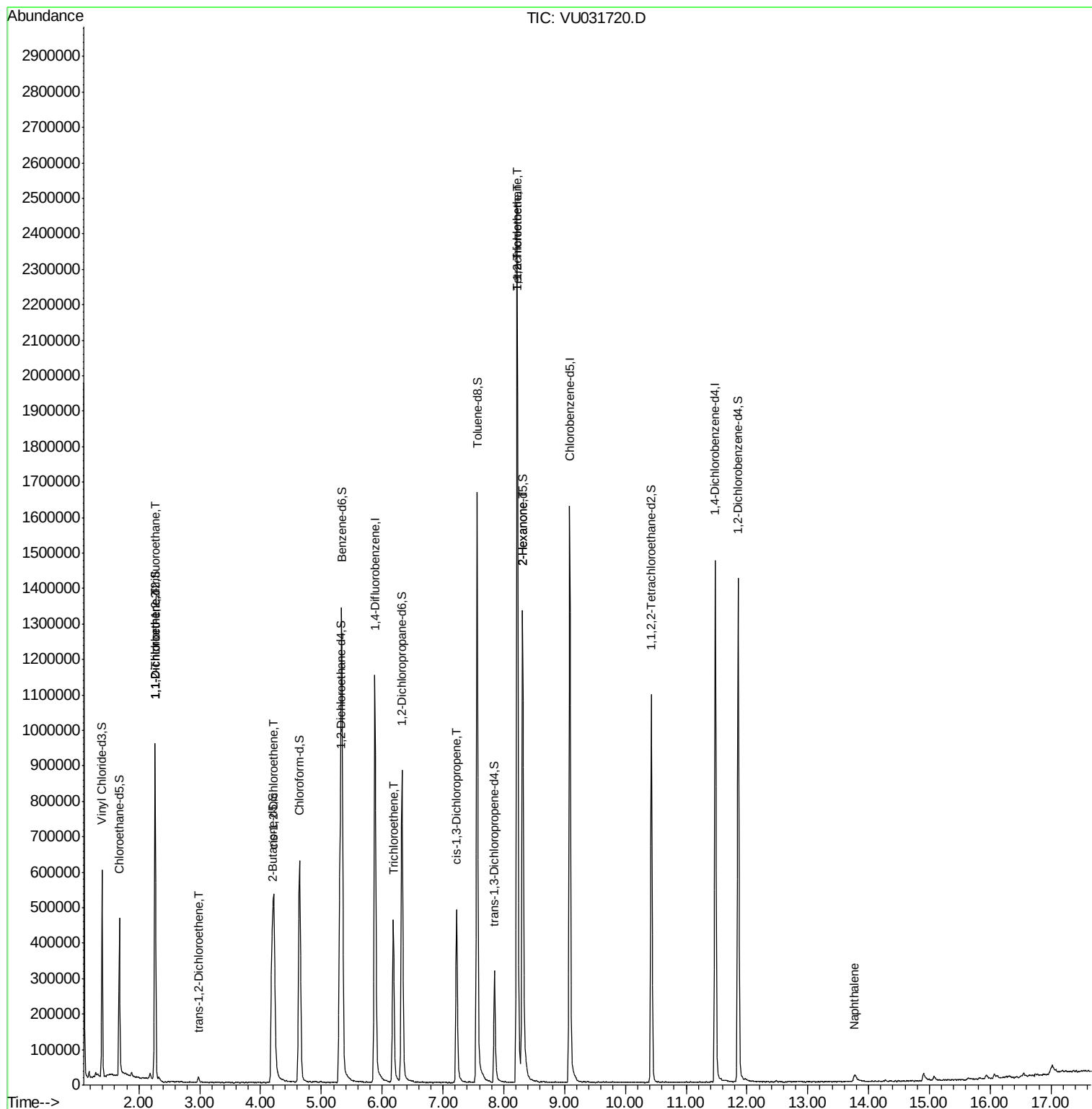
|                                |       |     |        |         |        | Qvalue |
|--------------------------------|-------|-----|--------|---------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.26  | 101 | 4994   | 0.648   | ug/L # | 22     |
| 12) 1,1-Dichloroethene         | 2.27  | 96  | 5175   | 0.690   | ug/L # | 1      |
| 17) trans-1,2-Dichloroethene   | 2.98  | 96  | 6063   | 0.775   | ug/L   | 97     |
| 20) cis-1,2-Dichloroethene     | 4.22  | 96  | 204219 | 24.345  | ug/L   | 100    |
| 34) Trichloroethene            | 6.18  | 95  | 168925 | 21.205  | ug/L   | 96     |
| 39) cis-1,3-Dichloropropene    | 7.23  | 75  | 10922  | 0.886   | ug/L   | 87     |
| 45) 1,1,2-Trichloroethane      | 8.22  | 97  | 5067   | 0.659   | ug/L # | 1      |
| 46) Tetrachloroethene          | 8.22  | 164 | 559510 | 103.025 | ug/L   | 96     |
| 48) 2-Hexanone                 | 8.31  | 43  | 58657  | 5.053   | ug/L # | 72     |
| 69) Naphthalene                | 13.77 | 128 | 14699  | 0.588   | ug/L # | 91     |

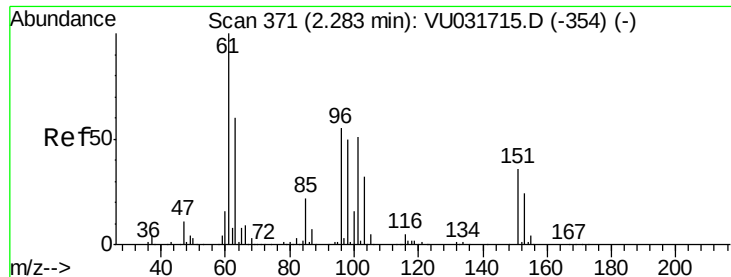
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#10

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

Concen: 0.648 ug/L

RT: 2.26 min Scan# 365

Delta R.T. -0.02 min

Lab File: VU031720.D

Acq: 02 May 2019 18:25

Instrument :

MSVOA\_U

ClientSampleId :

C0B27

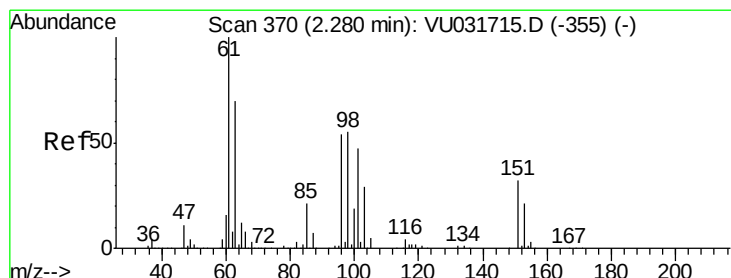
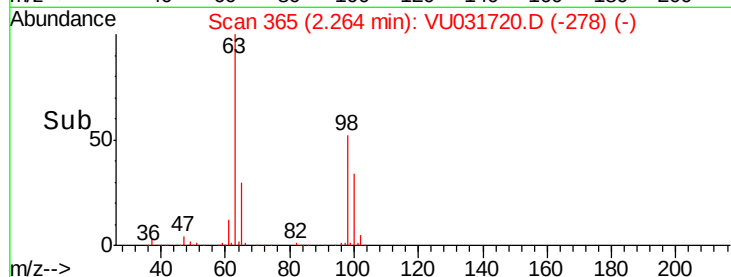
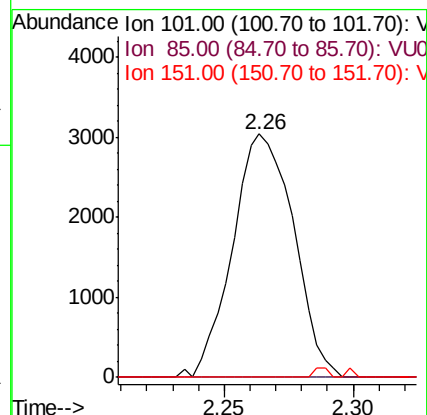
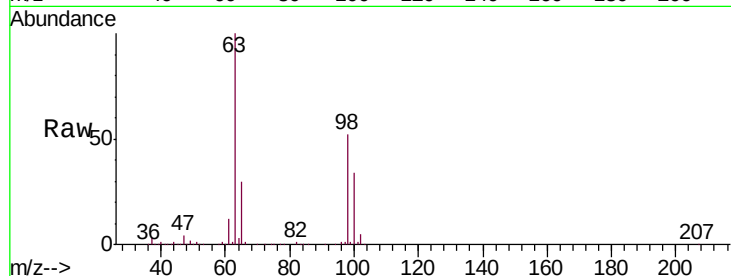
Tgt Ion: 101 Resp: 4994

Ion Ratio Lower Upper

101 100

85 0.0 36.1 54.1#

151 0.9 56.1 84.1#



#12

1,1-Dichloroethene

Concen: 0.690 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.01 min

Lab File: VU031720.D

Acq: 02 May 2019 18:25

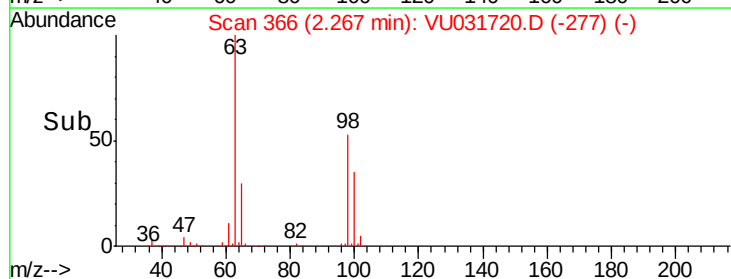
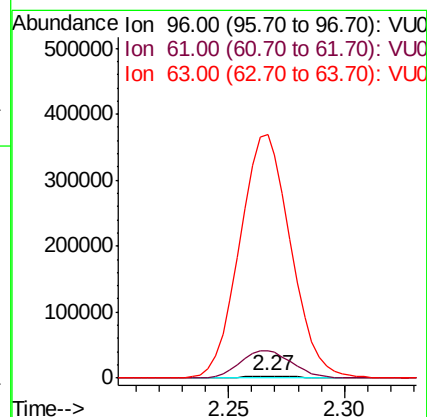
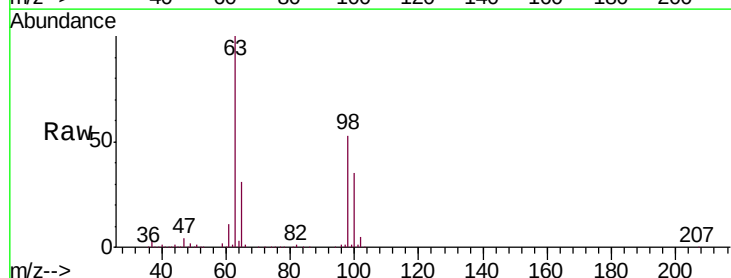
Tgt Ion: 96 Resp: 5175

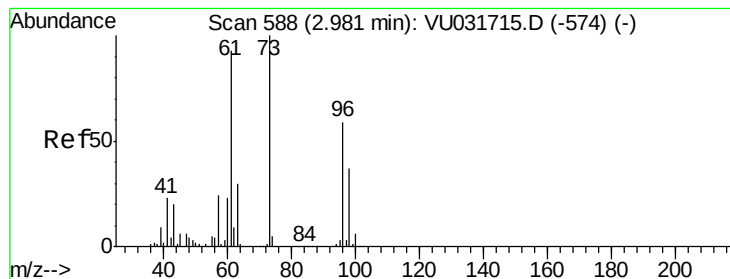
Ion Ratio Lower Upper

96 100

61 1422.5 135.0 250.6#

63 12441.8 103.5 192.3#





#17

trans-1,2-Dichloroethene

Concen: 0.775 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU031720.D

Acq: 02 May 2019 18:25

Instrument :

MSVOA\_U

ClientSampleId :

C0B27

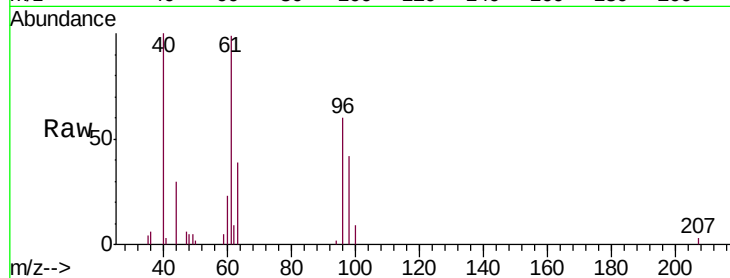
Tgt Ion: 96 Resp: 6063

Ion Ratio Lower Upper

96 100

61 165.0 114.5 212.7

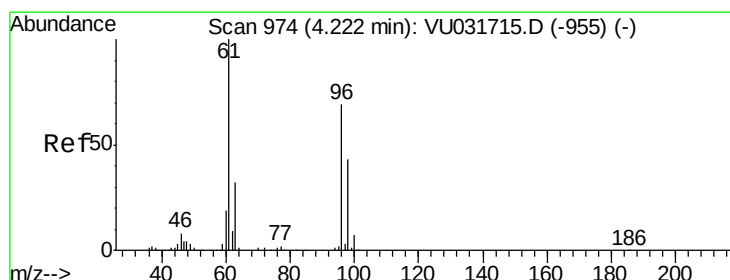
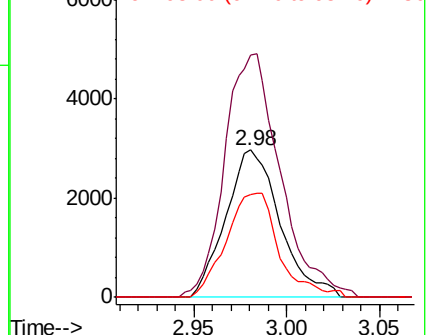
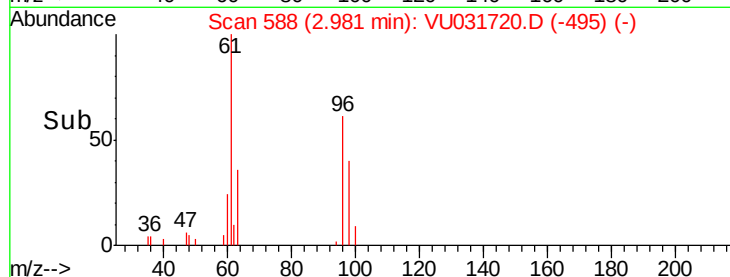
98 69.8 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU031720.D (-495) (-)

Ion 61.00 (60.70 to 61.70): VU031720.D (-495) (-)

Ion 98.00 (97.70 to 98.70): VU031720.D (-495) (-)



#20

cis-1,2-Dichloroethene

Concen: 24.345 ug/L

RT: 4.22 min Scan# 974

Delta R.T. -0.00 min

Lab File: VU031720.D

Acq: 02 May 2019 18:25

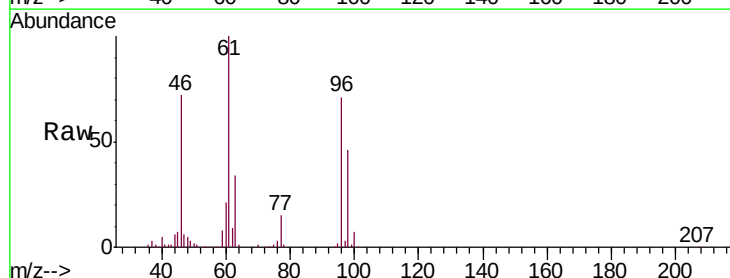
Tgt Ion: 96 Resp: 204219

Ion Ratio Lower Upper

96 100

61 141.5 99.5 184.7

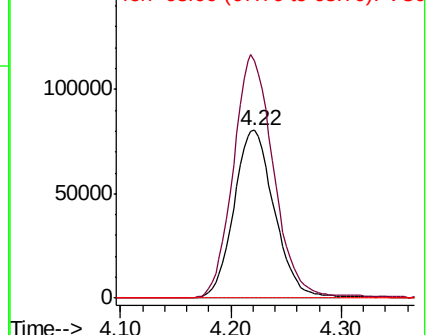
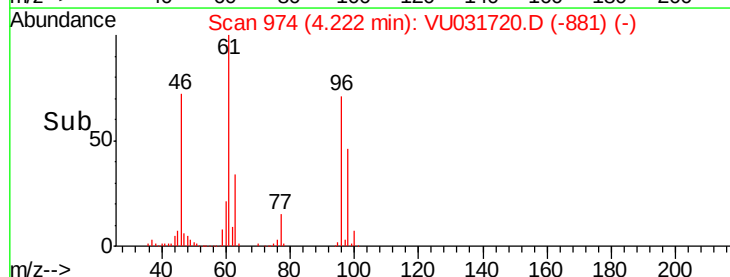
68 0.0 0.0 0.0

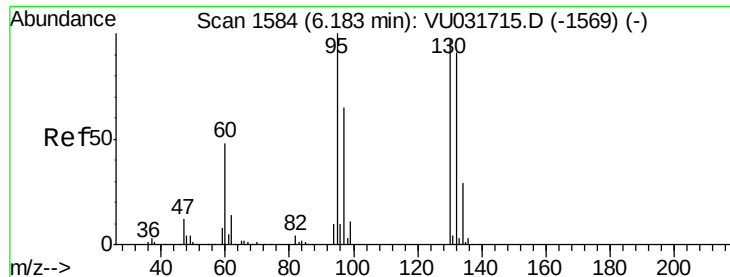


Abundance Ion 96.00 (95.70 to 96.70): VU031720.D (-881) (-)

Ion 61.00 (60.70 to 61.70): VU031720.D (-881) (-)

Ion 68.00 (67.70 to 68.70): VU031720.D (-881) (-)





#34

Trichloroethene

Concen: 21.205 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. -0.00 min

Lab File: VU031720.D

Acq: 02 May 2019 18:25

Instrument :

MSVOA\_U

ClientSampleId :

C0B27

Tgt Ion: 95 Resp: 168925

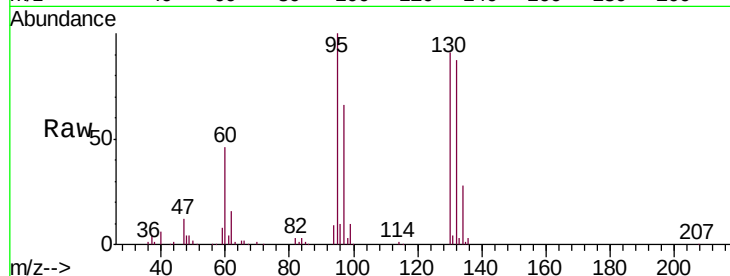
Ion Ratio Lower Upper

95 100

97 65.8 44.8 83.2

132 86.7 63.1 117.1

130 90.9 66.5 123.5

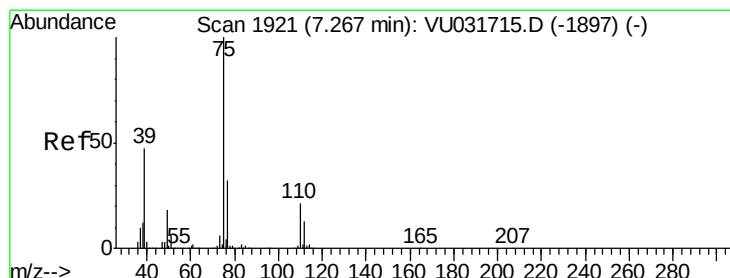
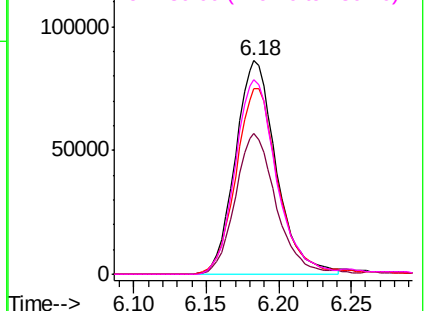
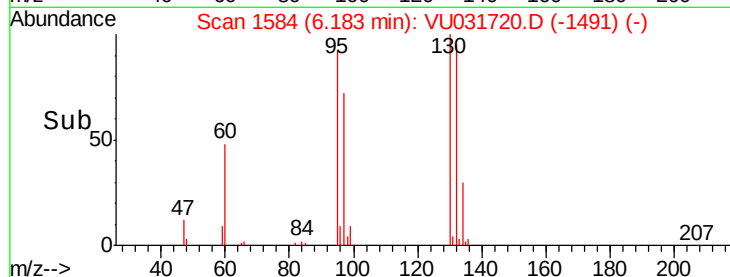


Abundance Ion 95.00 (94.70 to 95.70): VU031720.D (-1491) (-)

Ion 97.00 (96.70 to 97.70): VU031720.D (-1491) (-)

Ion 132.00 (131.70 to 132.70): VU031720.D (-1491) (-)

Ion 130.00 (129.70 to 130.70): VU031720.D (-1491) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.886 ug/L

RT: 7.23 min Scan# 1909

Delta R.T. -0.04 min

Lab File: VU031720.D

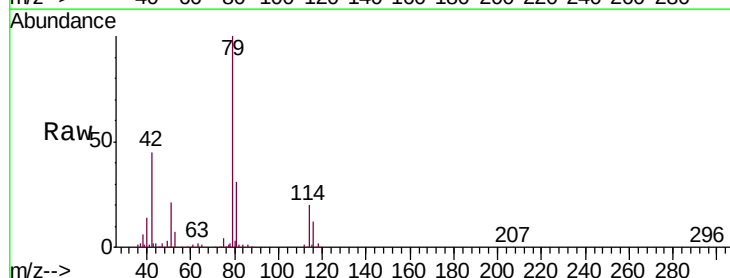
Acq: 02 May 2019 18:25

Tgt Ion: 75 Resp: 10922

Ion Ratio Lower Upper

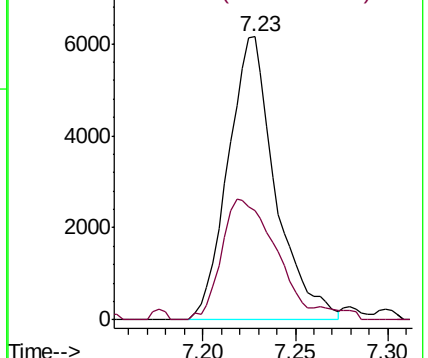
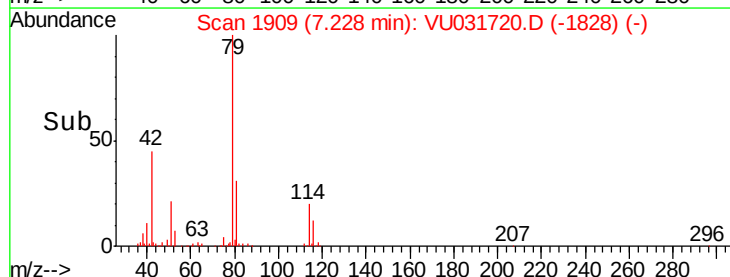
75 100

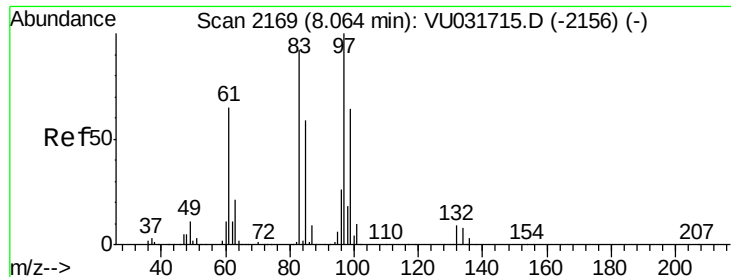
77 38.8 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU031720.D (-1828) (-)

Ion 77.00 (76.70 to 77.70): VU031720.D (-1828) (-)

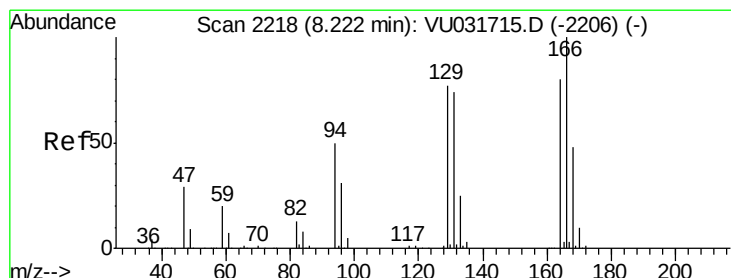
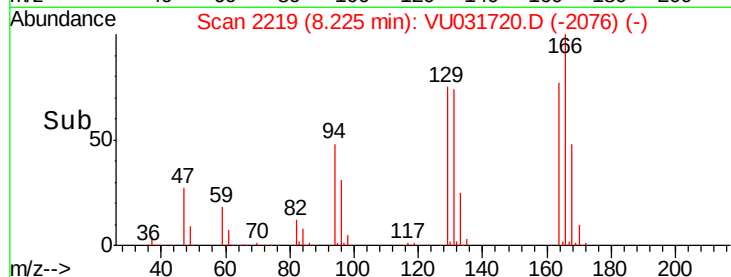
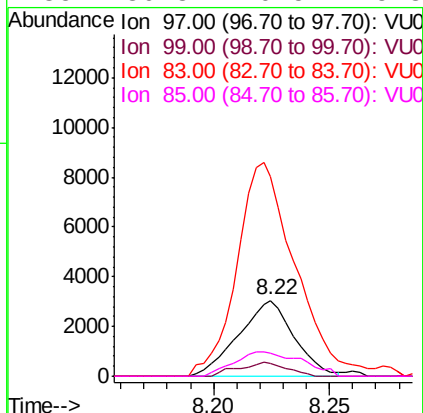
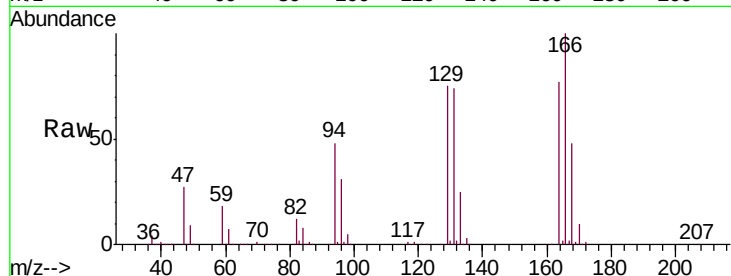




#45  
 1,1,2-Trichloroethane  
 Concen: 0.659 ug/L  
 RT: 8.22 min Scan# 2219  
 Delta R.T. 0.16 min  
 Lab File: VU031720.D  
 Acq: 02 May 2019 18:25

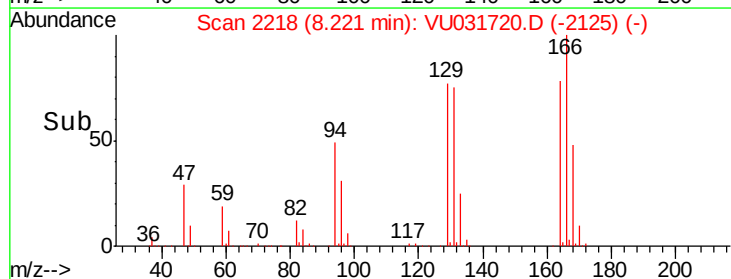
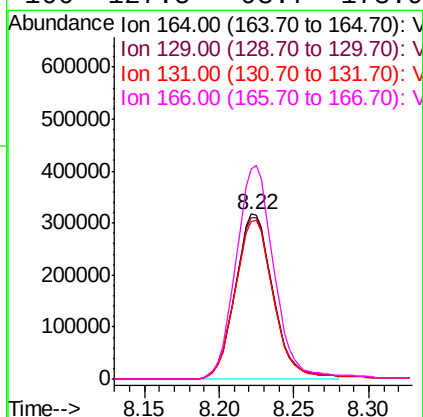
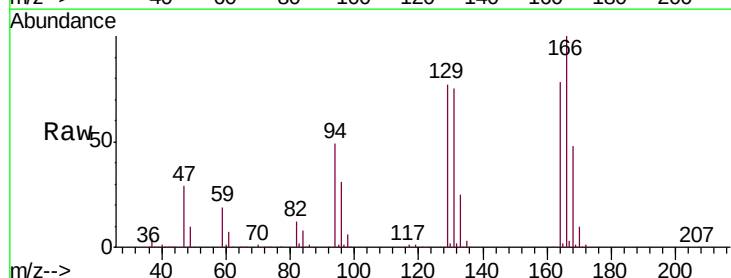
Instrument :  
 MSVOA\_U  
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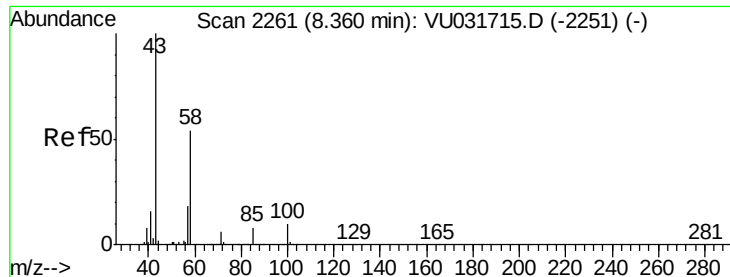
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 5067   |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 16.2  | 43.0  | 80.0#  |
| 83       | 262.8 | 63.6  | 118.2# |
| 85       | 30.8  | 40.5  | 75.3#  |



#46  
 Tetrachloroethene  
 Concen: 103.025 ug/L  
 RT: 8.22 min Scan# 2218  
 Delta R.T. -0.00 min  
 Lab File: VU031720.D  
 Acq: 02 May 2019 18:25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 559510 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 98.2  | 71.5  | 132.9  |
| 131      | 95.9  | 69.0  | 128.2  |
| 166      | 127.5 | 93.7  | 173.9  |

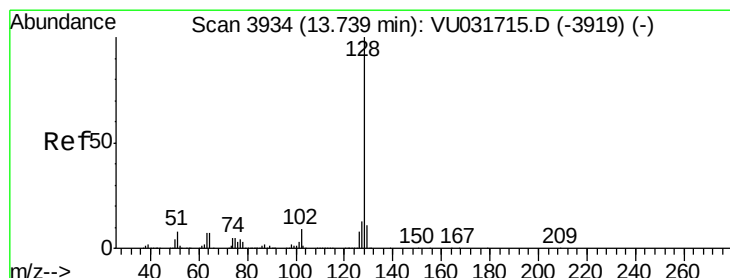
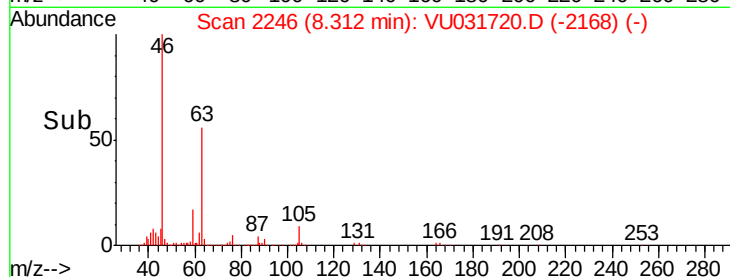
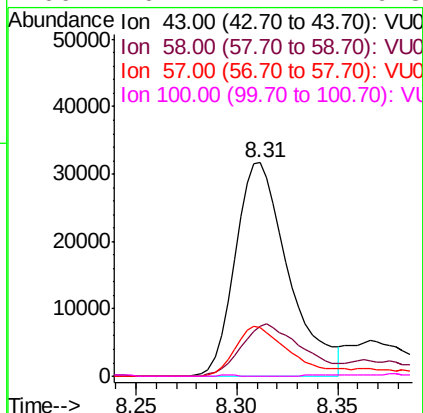
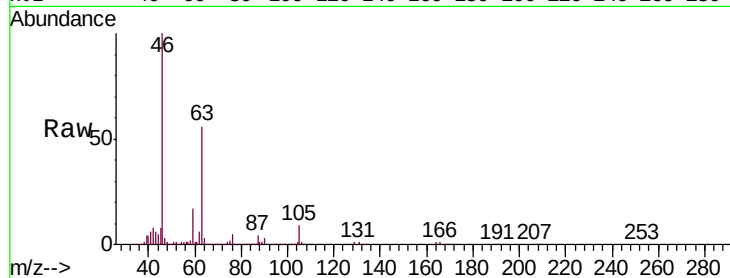




#48  
2-Hexanone  
Concen: 5.053 ug/L  
RT: 8.31 min Scan# 2246  
Delta R.T. -0.05 min  
Lab File: VU031720.D  
Acq: 02 May 2019 18:25

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0B27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 58657 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 28.0  | 42.1  | 63.1# |
| 57       | 22.8  | 14.6  | 22.0# |
| 100      | 0.2   | 7.2   | 10.8# |



#69  
Naphthalene  
Concen: 0.588 ug/L  
RT: 13.77 min Scan# 3943  
Delta R.T. 0.03 min  
Lab File: VU031720.D  
Acq: 02 May 2019 18:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 14699 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 11.4  | 10.6  | 15.8  |
| 129      | 5.4   | 8.7   | 13.1# |

