

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060520\  
 Data File : VU038606.D  
 Acq On : 06 Jun 2020 08:10  
 Operator : SY/MD  
 Sample : L2910-13  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F9D30

Quant Time: Jun 07 02:14:58 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR053120WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sun Jun 07 02:13:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 447065   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 431626   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 202813   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 106465   | 3.68     | ug/L | -0.01   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 73.60%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 111714   | 5.02     | ug/L | -0.01   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 100.40% |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 167874   | 2.95     | ug/L | -0.02   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 59.00%# |
| 20) 2-Butanone-d5              | 4.66   | 46    | 472602   | 53.77    | ug/L | -0.02   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 107.54% |
| 24) Chloroform-d               | 5.09   | 84    | 250372   | 4.61     | ug/L | -0.02   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.73   | 65    | 142455   | 4.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.40%  |
| 32) Benzene-d6                 | 5.75   | 84    | 515899   | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 161101   | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.20%  |
| 41) Toluene-d8                 | 7.92   | 98    | 398719   | 4.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 82.40%  |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 52962    | 3.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 74.40%  |
| 46) 2-Hexanone-d5              | 8.66   | 63    | 308695   | 43.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 87.74%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77  | 84    | 115939   | 4.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 82.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.21  | 152   | 167881   | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 96.00%  |

## Target Compounds

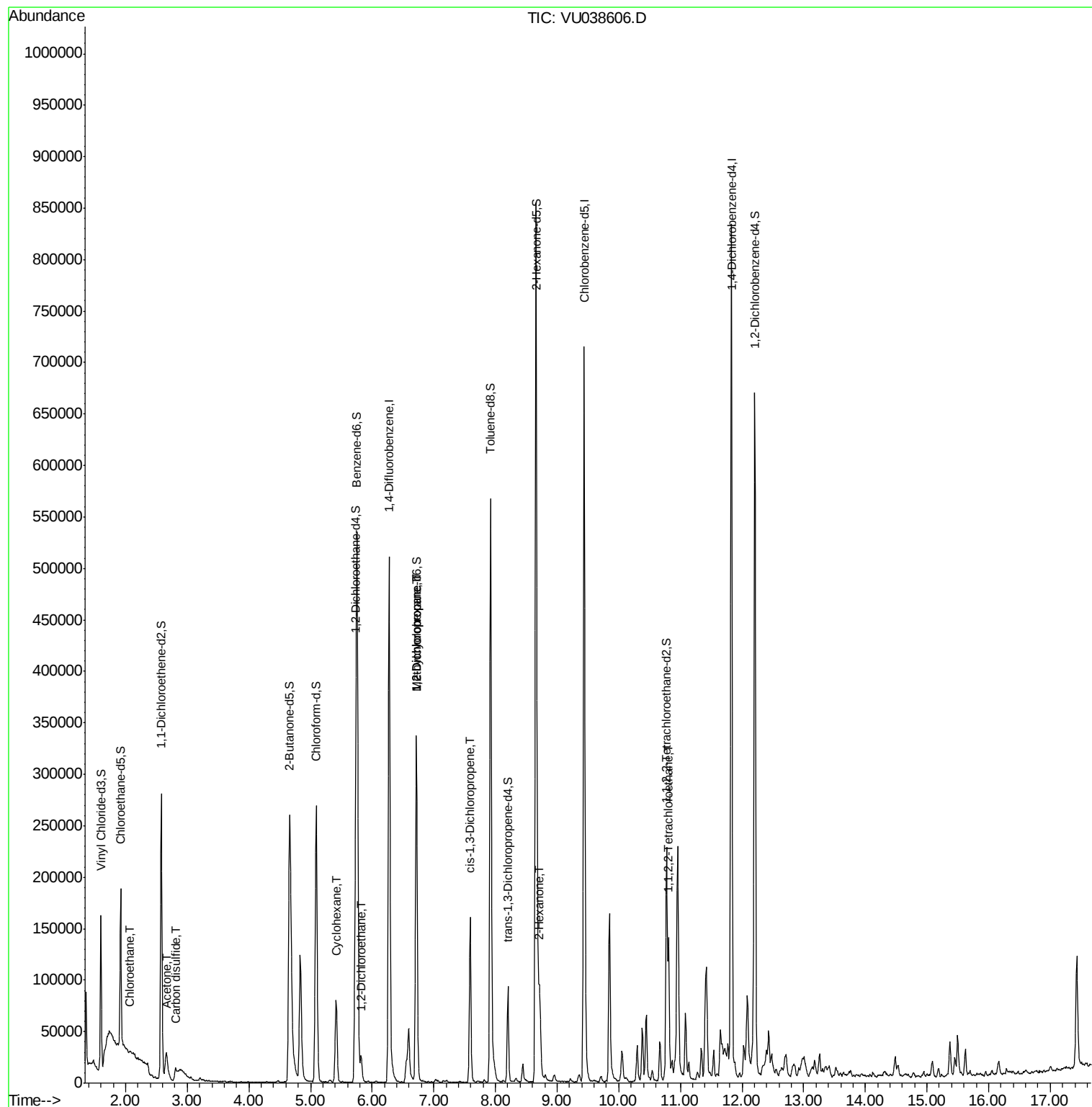
| Target Compounds              | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------------|-------|------|----------|-------|--------|--------|
| 8) Chloroethane               | 2.08  | 64   | 4009     | 0.193 | ug/L # | 55     |
| 13) Acetone                   | 2.66  | 43   | 51272    | 8.913 | ug/L   | 96     |
| 14) Carbon disulfide          | 2.81  | 76   | 10601    | 0.113 | ug/L   | 96     |
| 27) 1,2-Dichloroethane        | 5.82  | 62   | 16446    | 0.433 | ug/L   | 97     |
| 30) Cyclohexane               | 5.41  | 56   | 39146    | 0.817 | ug/L   | 98     |
| 35) Methylcyclohexane         | 6.72  | 83   | 38531    | 0.797 | ug/L # | 18     |
| 37) 1,2-Dichloropropane       | 6.72  | 63   | 17441    | 0.576 | ug/L # | 86     |
| 39) cis-1,3-Dichloropropene   | 7.59  | 75   | 4127     | 0.092 | ug/L # | 77     |
| 48) 2-Hexanone                | 8.72  | 43   | 60091    | 3.663 | ug/L # | 94     |
| 58) 1,1,2,2-Tetrachloroethane | 10.81 | 83   | 5559     | 0.191 | ug/L # | 55     |

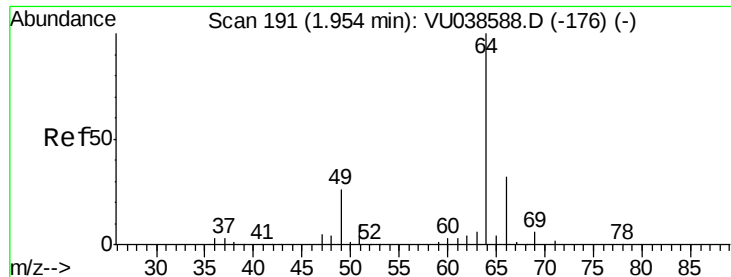
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L2910-13  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F9D30

Quant Time: Jun 07 02:14:58 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR053120WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sun Jun 07 02:13:00 2020  
Response via : Initial Calibration





#8

Chloroethane

Concen: 0.193 ug/L

RT: 2.08 min Scan# 229

Delta R.T. 0.12 min

Lab File: VU038606.D

Acq: 06 Jun 2020 08:10

Instrument :

MSVOA\_U

ClientSampleId :

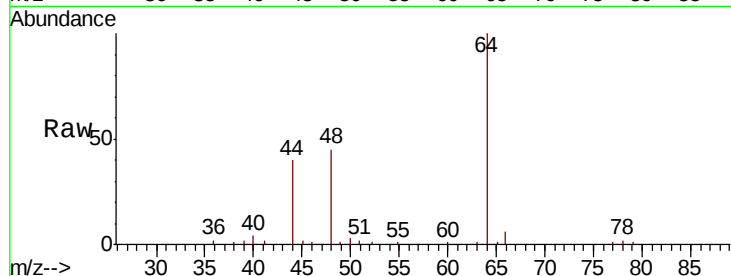
F9D30

Tot Ion: 64 Resp: 4009

Ion Ratio Lower Upper

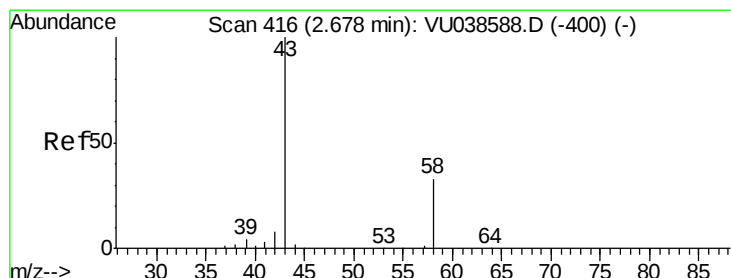
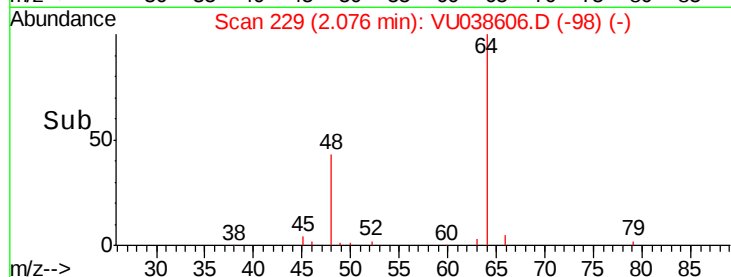
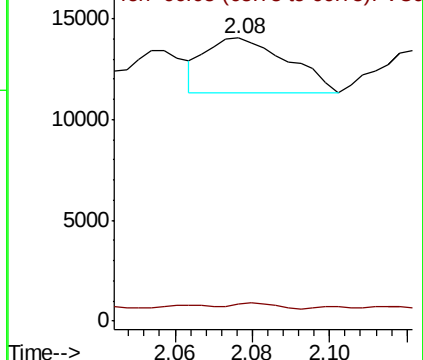
64 100

66 5.9 21.5 39.9#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



#13

Acetone

Concen: 8.913 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.02 min

Lab File: VU038606.D

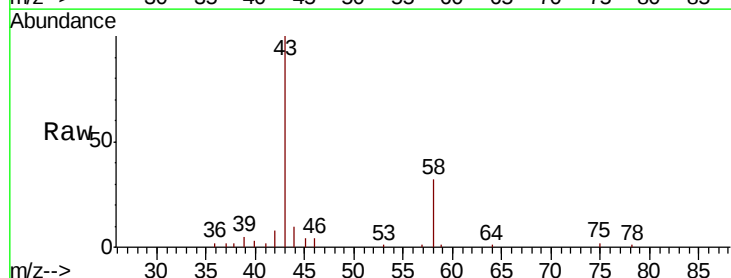
Acq: 06 Jun 2020 08:10

Tgt Ion: 43 Resp: 51272

Ion Ratio Lower Upper

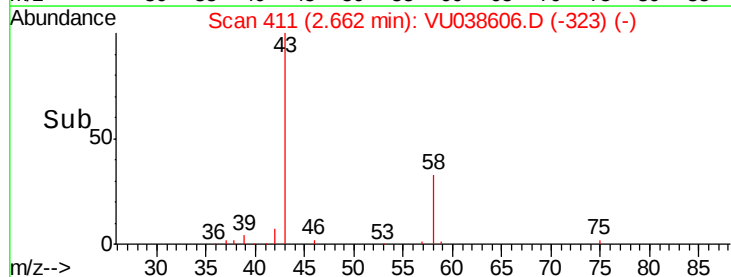
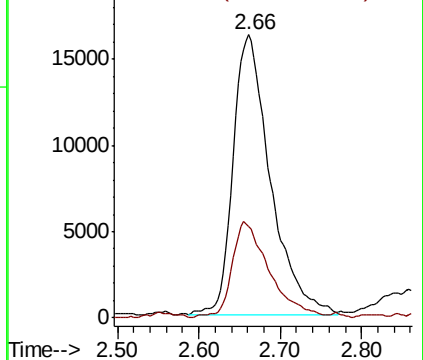
43 100

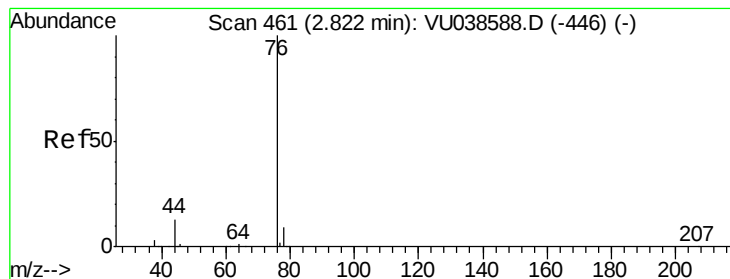
58 34.8 0.0 65.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0





#14

Carbon disulfide

Concen: 0.113 ug/L

RT: 2.81 min Scan# 457

Delta R.T. -0.01 min

Lab File: VU038606.D

Acq: 06 Jun 2020 08:10

Instrument :

MSVOA\_U

ClientSampleId :

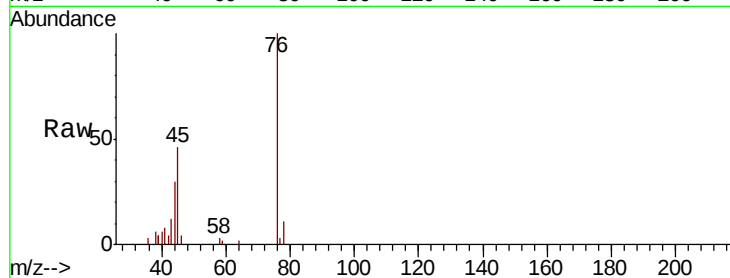
F9D30

Tot Ion: 76 Resp: 10601

Ion Ratio Lower Upper

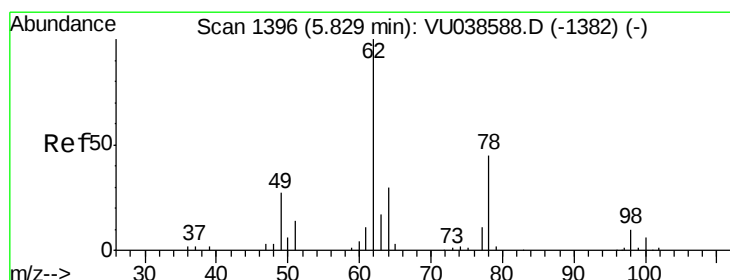
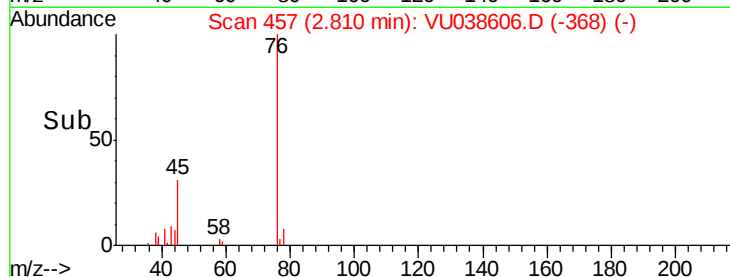
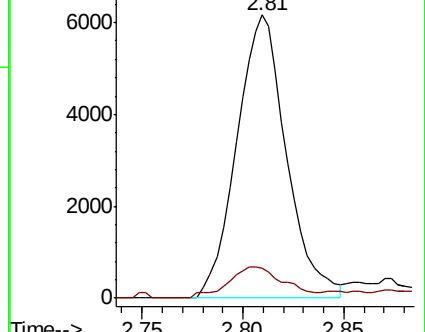
76 100

78 10.5 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VU038588.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU038588.D (-446) (-)



#27

1,2-Dichloroethane

Concen: 0.433 ug/L

RT: 5.82 min Scan# 1394

Delta R.T. -0.01 min

Lab File: VU038606.D

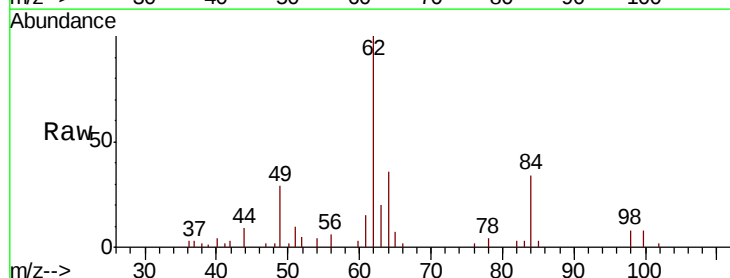
Acq: 06 Jun 2020 08:10

Tgt Ion: 62 Resp: 16446

Ion Ratio Lower Upper

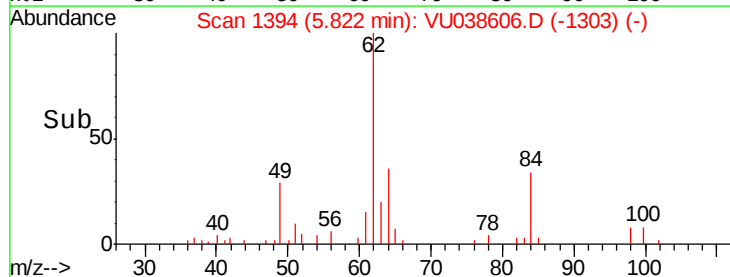
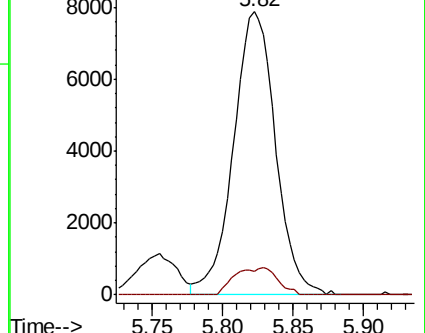
62 100

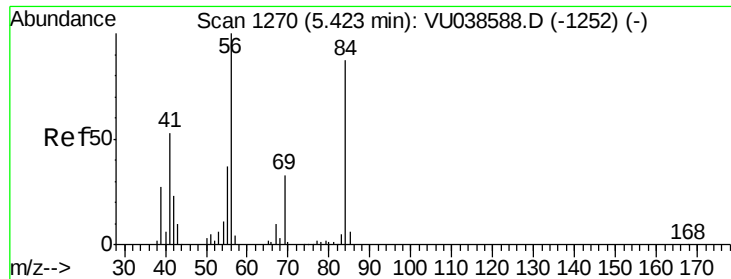
98 8.2 7.4 11.2



Abundance Ion 62.00 (61.70 to 62.70): VU038588.D (-1382) (-)

Ion 98.05 (97.75 to 98.75): VU038588.D (-1382) (-)

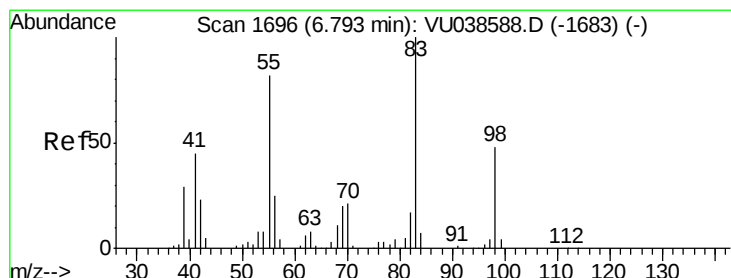
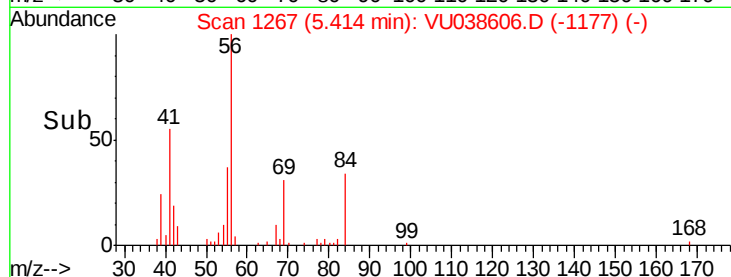
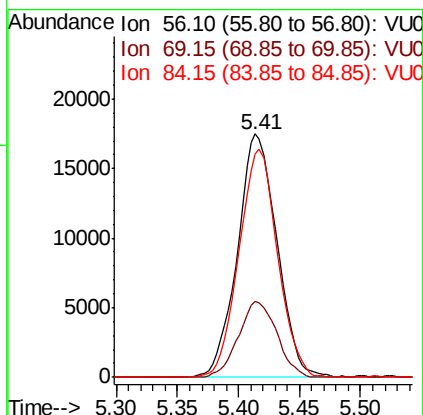
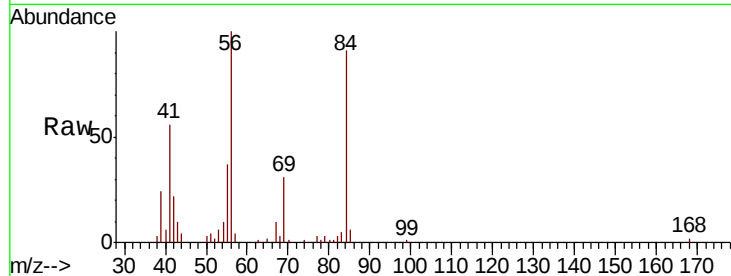




#30  
Cyclohexane  
Concen: 0.817 ug/L  
RT: 5.41 min Scan# 1267  
Delta R.T. -0.01 min  
Lab File: VU038606.D  
Acq: 06 Jun 2020 08:10

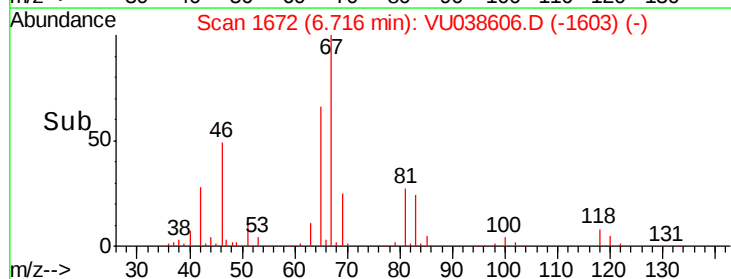
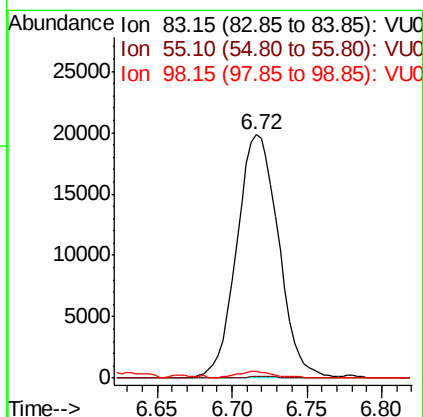
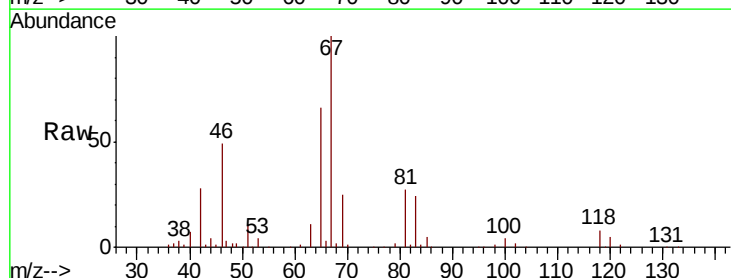
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F9D30

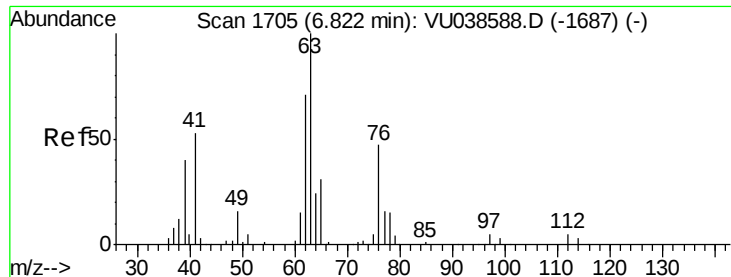
| Tot Ion | 56    | Resp  | 39146 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 56      | 100   |       |       |
| 69      | 30.3  | 24.2  | 36.4  |
| 84      | 91.3  | 70.8  | 106.2 |



#35  
Methylcyclohexane  
Concen: 0.797 ug/L  
RT: 6.72 min Scan# 1672  
Delta R.T. -0.08 min  
Lab File: VU038606.D  
Acq: 06 Jun 2020 08:10

| Tgt Ion | 83    | Resp  | 38531 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 83      | 100   |       |       |
| 55      | 0.4   | 63.4  | 95.2# |
| 98      | 2.4   | 39.0  | 58.4# |

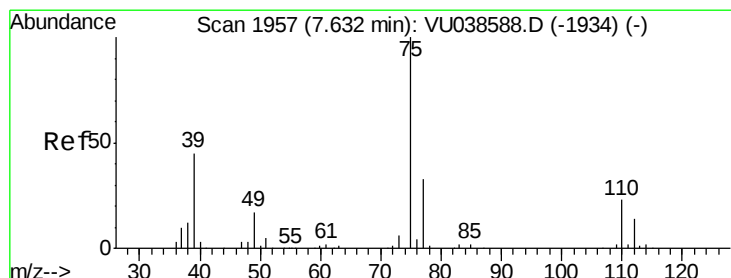
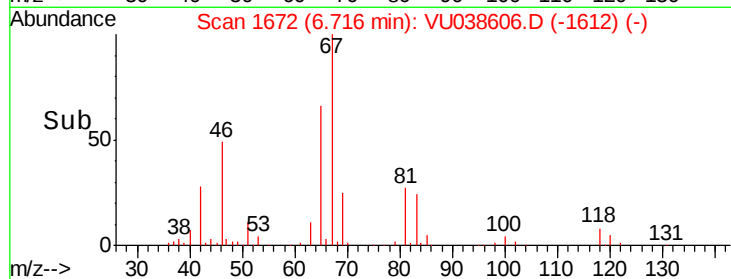
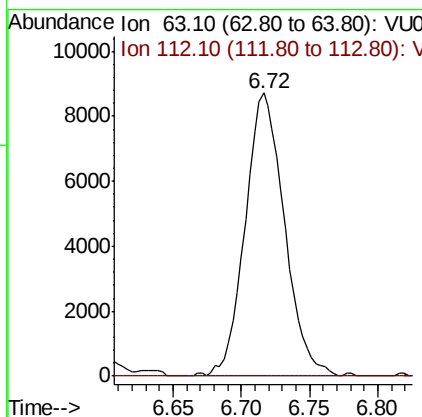
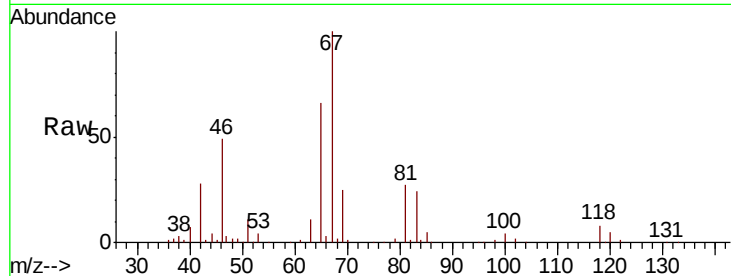




#37  
 1,2-Dichloropropane  
 Concen: 0.576 ug/L  
 RT: 6.72 min Scan# 1672  
 Delta R.T. -0.11 min  
 Lab File: VU038606.D  
 Acq: 06 Jun 2020 08:10

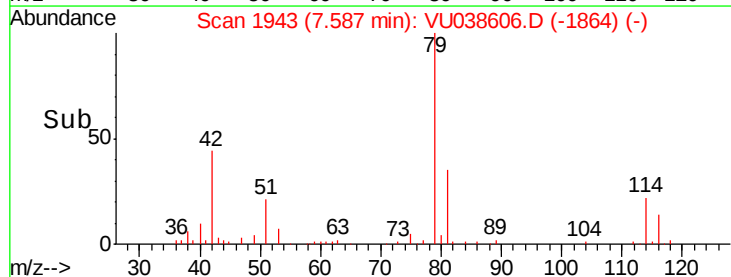
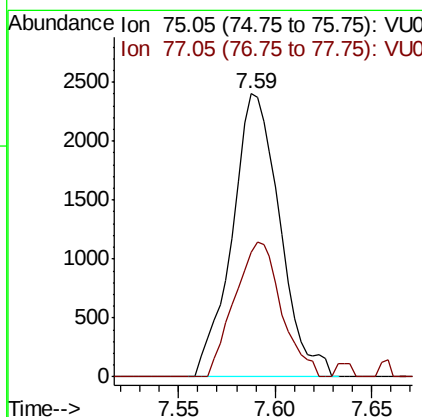
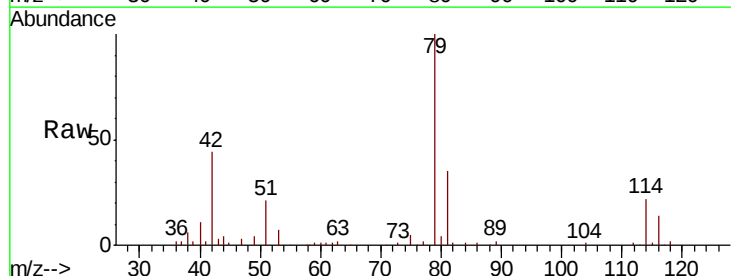
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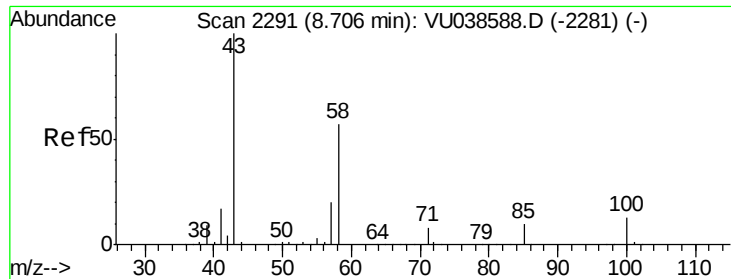
Tot Ion: 63 Resp: 17441  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.7 5.5#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.092 ug/L  
 RT: 7.59 min Scan# 1943  
 Delta R.T. -0.04 min  
 Lab File: VU038606.D  
 Acq: 06 Jun 2020 08:10

Tgt Ion: 75 Resp: 4127  
 Ion Ratio Lower Upper  
 75 100  
 77 44.2 21.9 40.7#

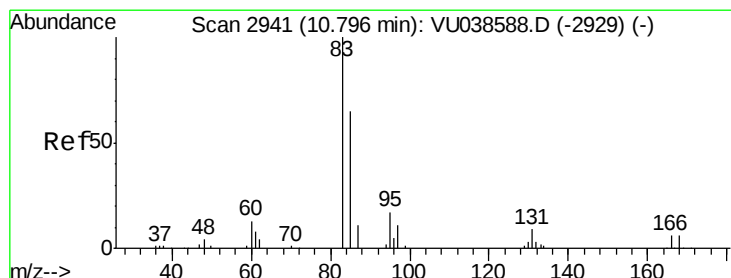
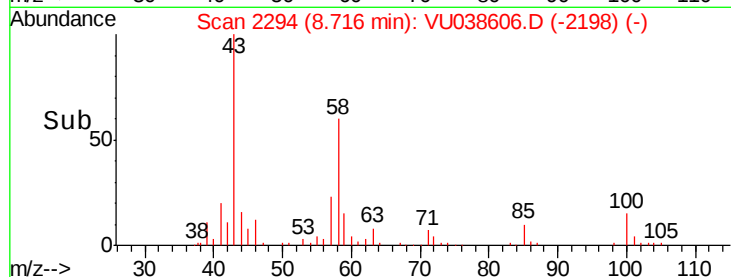
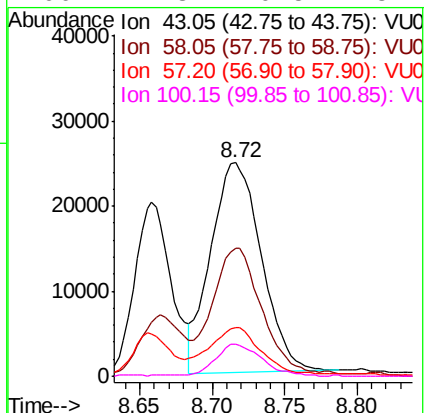
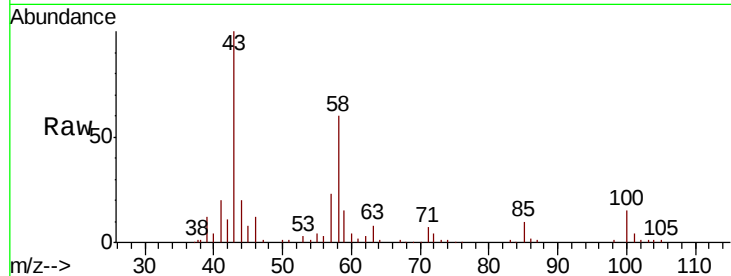




#48  
2-Hexanone  
Concen: 3.663 ug/L  
RT: 8.72 min Scan# 2294  
Delta R.T. 0.01 min  
Lab File: VU038606.D  
Acq: 06 Jun 2020 08:10

Instrument :  
MSVOA\_U  
ClientSampleId :  
F9D30

Tot Ion: 43 Resp: 60091  
Ion Ratio Lower Upper  
43 100  
58 60.3 45.4 68.0  
57 25.3 15.9 23.9#  
100 14.3 10.5 15.7



#58  
1,1,2,2-Tetrachloroethane  
Concen: 0.191 ug/L  
RT: 10.81 min Scan# 2944  
Delta R.T. 0.01 min  
Lab File: VU038606.D  
Acq: 06 Jun 2020 08:10

Tgt Ion: 83 Resp: 5559  
Ion Ratio Lower Upper  
83 100  
85 25.5 44.2 82.0#  
131 0.0 8.1 12.1#

