

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU093020\  
 Data File : VU040404.D  
 Acq On : 30 Sep 2020 17:36  
 Operator : SY/MD  
 Sample : VIBLK66  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VIBLK66

Quant Time: Oct 01 04:15:48 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR092920WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Oct 01 03:05:40 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 129918   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 130298   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 57018    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 26869    | 4.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 83.60%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 26862    | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 95.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 44563    | 2.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 57.60%# |
| 20) 2-Butanone-d5              | 4.66   | 46    | 158554   | 49.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 99.26%  |
| 24) Chloroform-d               | 5.08   | 84    | 71197    | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 44680    | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.80%  |
| 32) Benzene-d6                 | 5.74   | 84    | 123671   | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 46506    | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.00%  |
| 41) Toluene-d8                 | 7.91   | 98    | 96753    | 4.25     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 85.00%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 16592    | 4.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 84.80%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 108748   | 47.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 94.56%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 43333    | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 93.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 44597    | 5.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 103.20% |

## Target Compounds

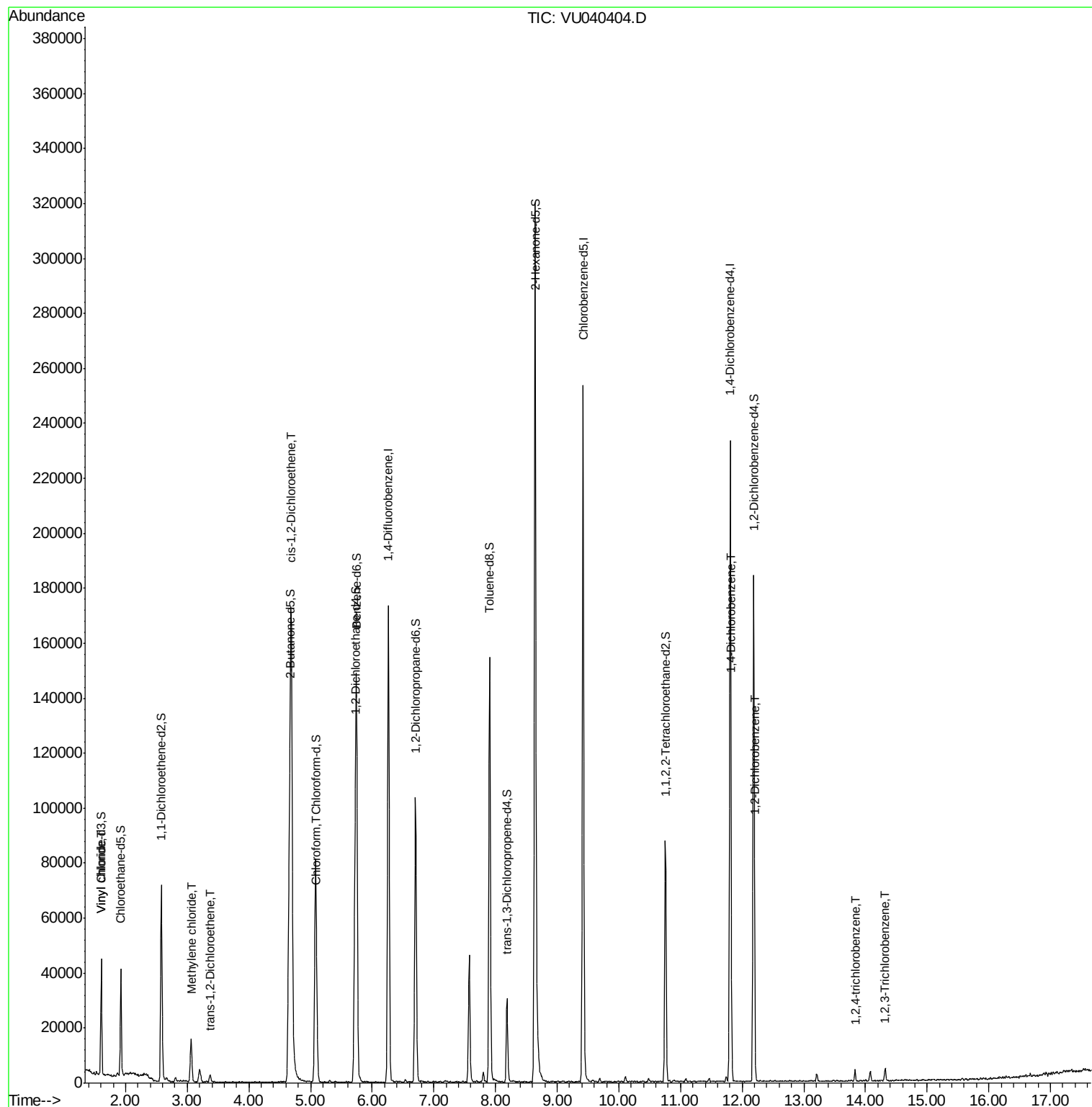
|                              |       |     |       |              | Ovalue |
|------------------------------|-------|-----|-------|--------------|--------|
| 5) Vinyl chloride            | 1.61  | 62  | 992   | 0.079 ug/L # | 30     |
| 16) Methylene chloride       | 3.06  | 84  | 6666  | 0.536 ug/L   | 86     |
| 18) trans-1,2-Dichloroethene | 3.38  | 96  | 1167  | 0.114 ug/L   | 72     |
| 22) cis-1,2-Dichloroethene   | 4.69  | 96  | 66702 | 5.893 ug/L   | 100    |
| 25) Chloroform               | 5.11  | 83  | 3079  | 0.144 ug/L   | 88     |
| 63) 1,4-Dichlorobenzene      | 11.83 | 146 | 1095  | 0.056 ug/L # | 89     |
| 65) 1,2-Dichlorobenzene      | 12.21 | 146 | 1233  | 0.067 ug/L # | 84     |
| 68) 1,2,4-trichlorobenzene   | 13.83 | 180 | 1587  | 0.147 ug/L # | 85     |
| 70) 1,2,3-Trichlorobenzene   | 14.32 | 180 | 1554  | 0.157 ug/L   | 97     |

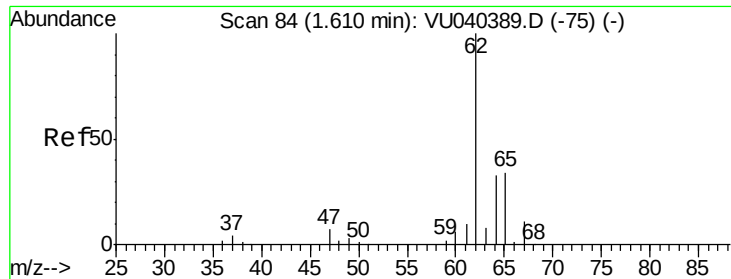
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Oct 01 03:05:40 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.079 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040404.D

Acq: 30 Sep 2020 17:36

Instrument :

MSVOA\_U

ClientSampleId :

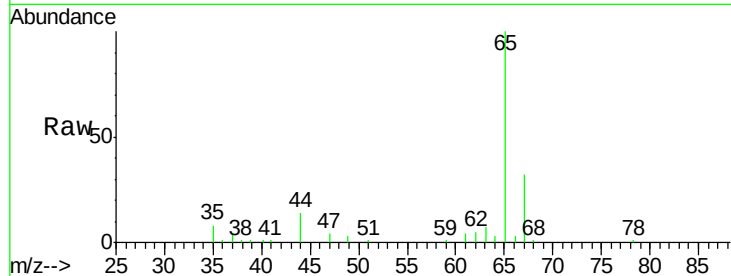
VIBLK66

Tot Ion: 62 Resp: 992

Ion Ratio Lower Upper

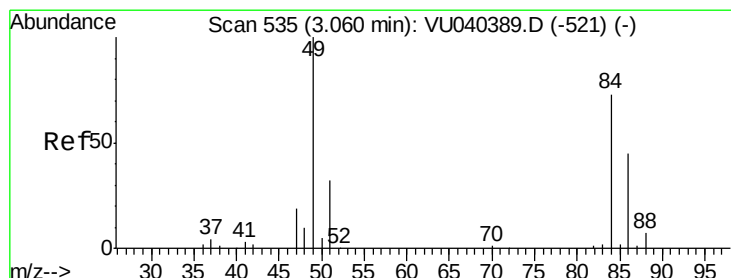
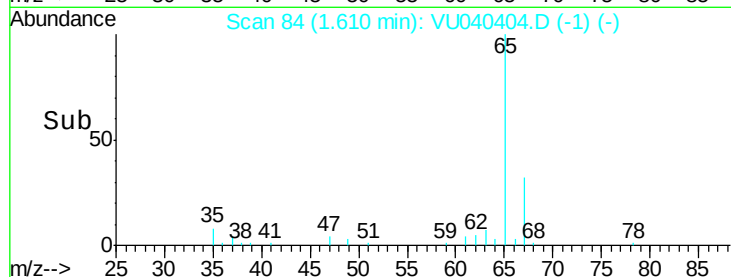
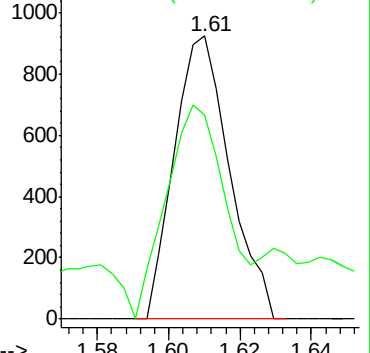
62 100

64 72.2 23.0 42.8#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#16

Methylene chloride

Concen: 0.536 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU040404.D

Acq: 30 Sep 2020 17:36

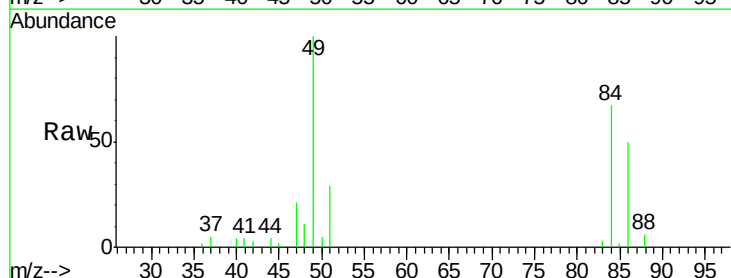
Tgt Ion: 84 Resp: 6666

Ion Ratio Lower Upper

84 100

86 74.0 44.4 82.5

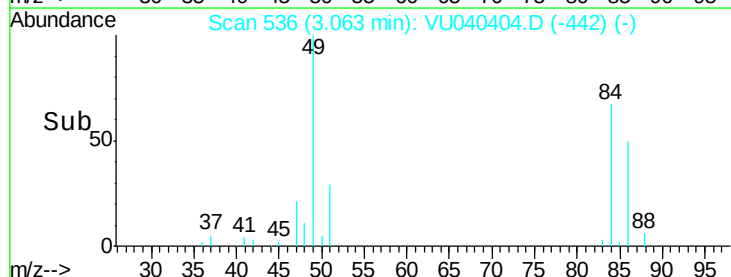
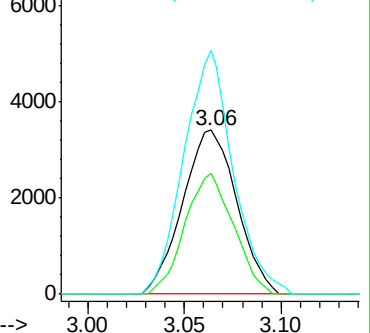
49 148.8 92.2 171.2

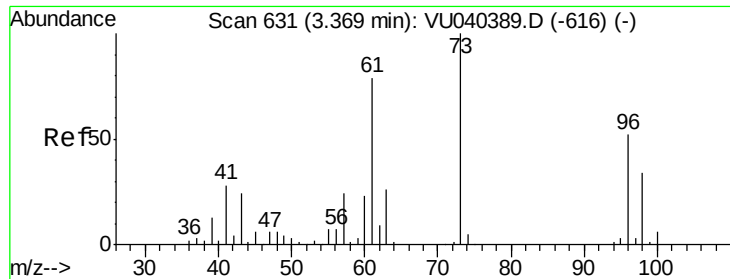


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

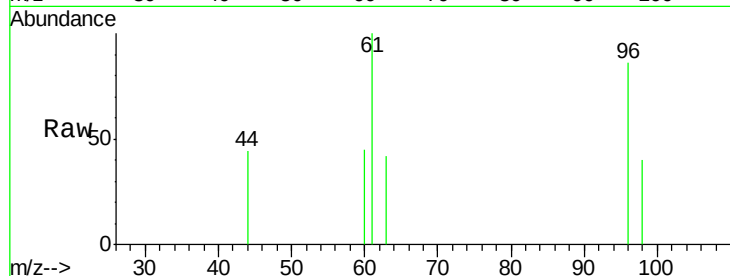




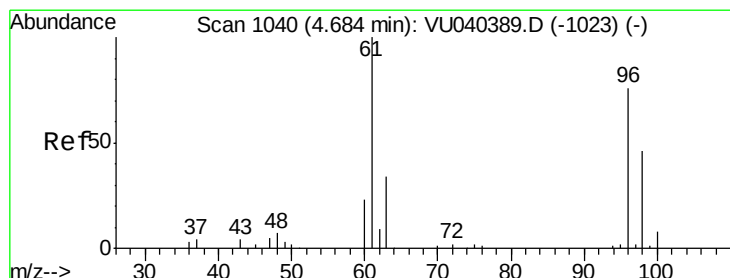
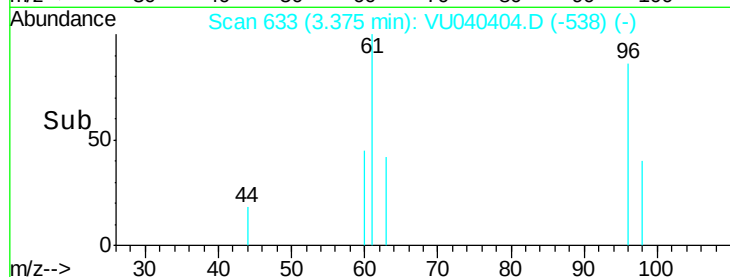
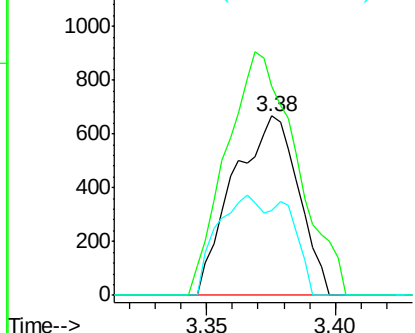
#18  
 trans-1,2-Dichloroethene  
 Concen: 0.114 ug/L  
 RT: 3.38 min Scan# 633  
 Delta R.T. 0.01 min  
 Lab File: VU040404.D  
 Acq: 30 Sep 2020 17:36

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 VIBLK66

Tot Ion: 96 Resp: 1167  
 Ion Ratio Lower Upper  
 96 100  
 61 116.8 109.3 203.1  
 98 47.1 45.8 85.0

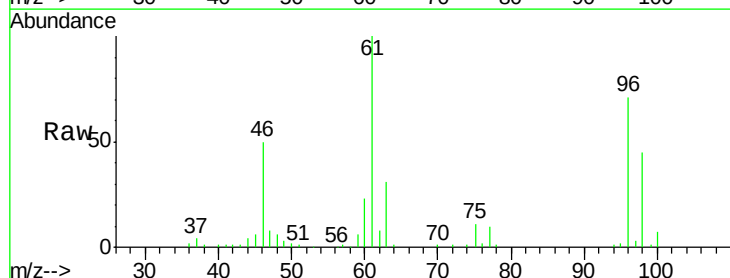


Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 97.95 (97.65 to 98.65): VU0

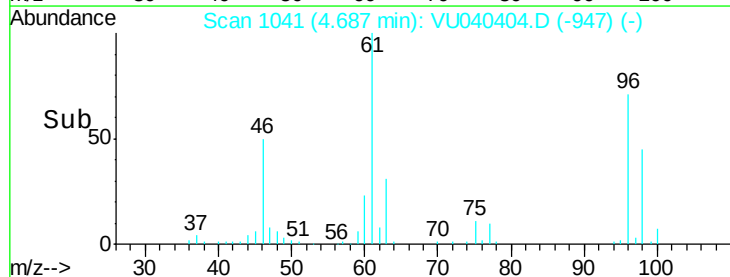
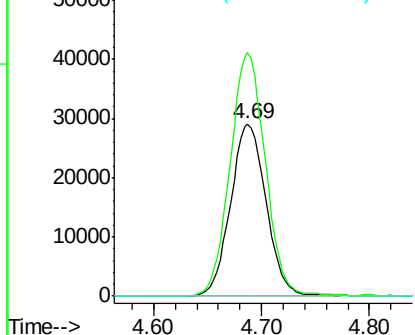


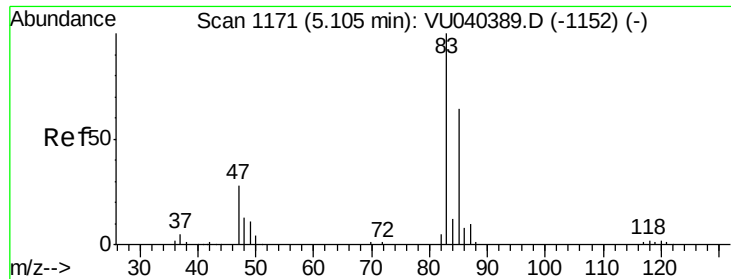
#22  
 cis-1,2-Dichloroethene  
 Concen: 5.893 ug/L  
 RT: 4.69 min Scan# 1041  
 Delta R.T. 0.00 min  
 Lab File: VU040404.D  
 Acq: 30 Sep 2020 17:36

Tgt Ion: 96 Resp: 66702  
 Ion Ratio Lower Upper  
 96 100  
 61 141.3 99.3 184.5  
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 68.15 (67.85 to 68.85): VU0

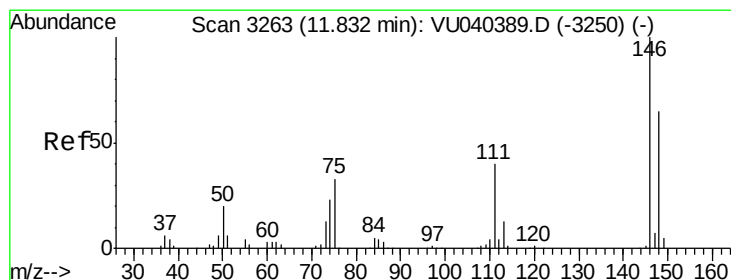
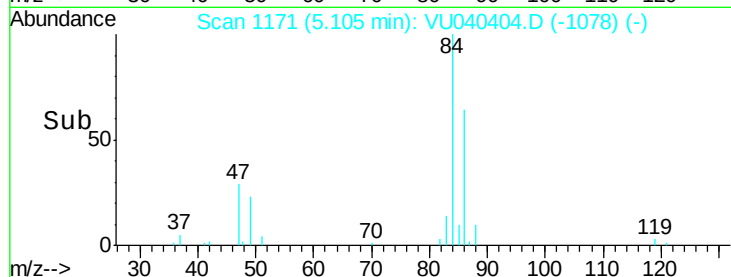
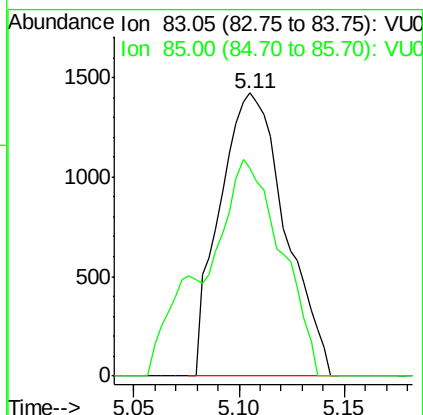
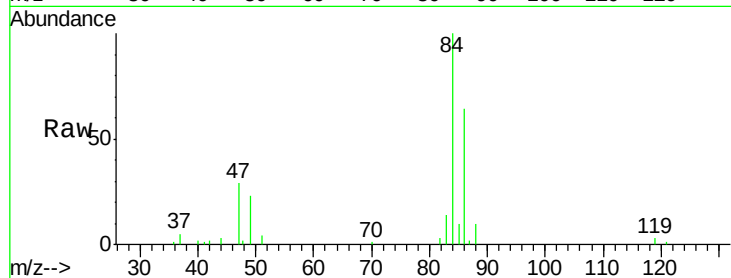




#25  
Chloroform  
Concen: 0.144 ug/L  
RT: 5.11 min Scan# 1171  
Delta R.T. -0.00 min  
Lab File: VU040404.D  
Acq: 30 Sep 2020 17:36

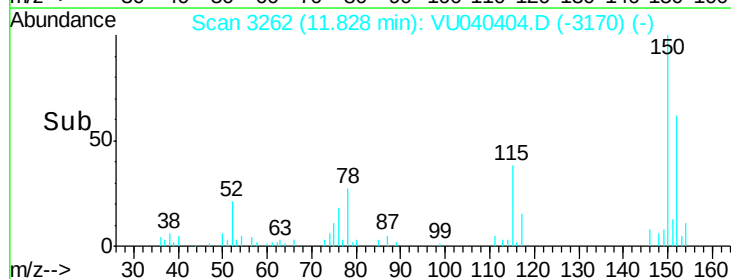
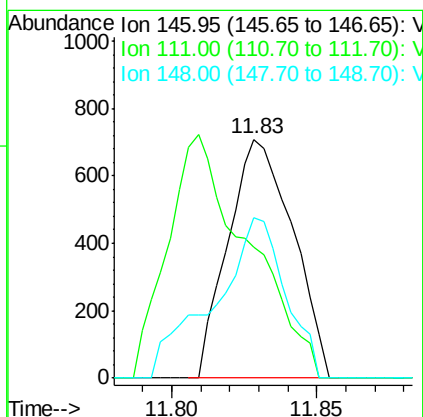
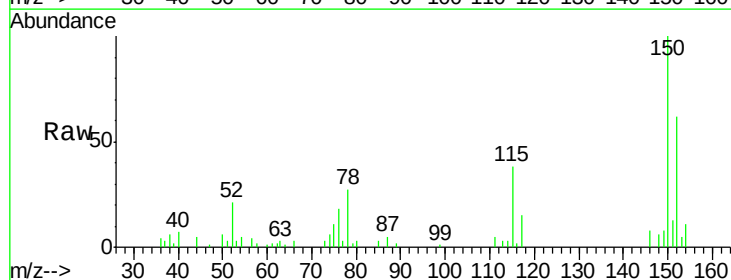
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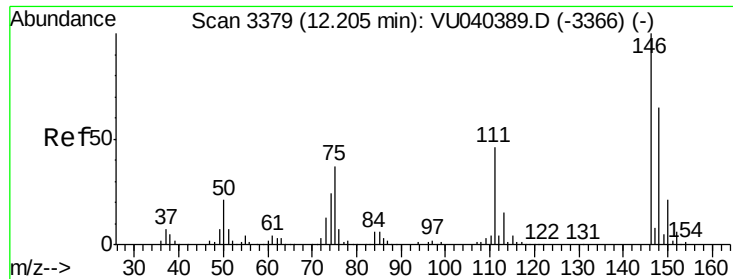
Tot Ion: 83 Resp: 3079  
Ion Ratio Lower Upper  
83 100  
85 73.3 44.6 82.8



#63  
1,4-Dichlorobenzene  
Concen: 0.056 ug/L  
RT: 11.83 min Scan# 3262  
Delta R.T. -0.00 min  
Lab File: VU040404.D  
Acq: 30 Sep 2020 17:36

Tgt Ion: 146 Resp: 1095  
Ion Ratio Lower Upper  
146 100  
111 54.8 29.2 54.2#  
148 67.4 44.4 82.4

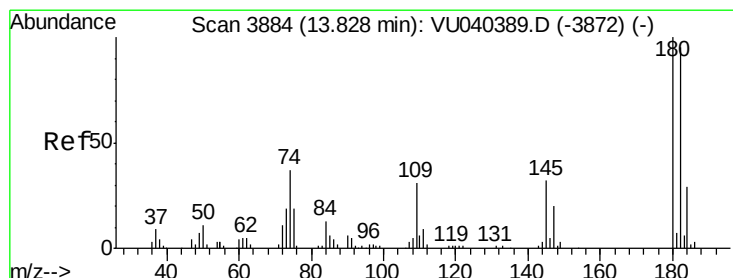
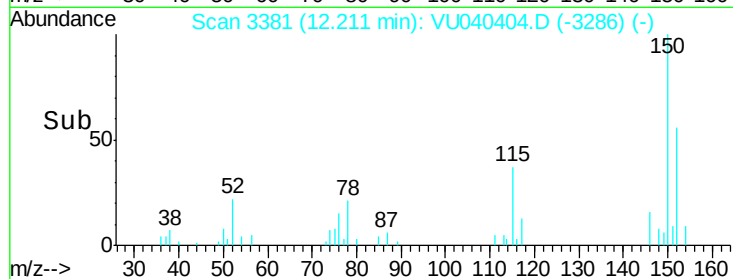
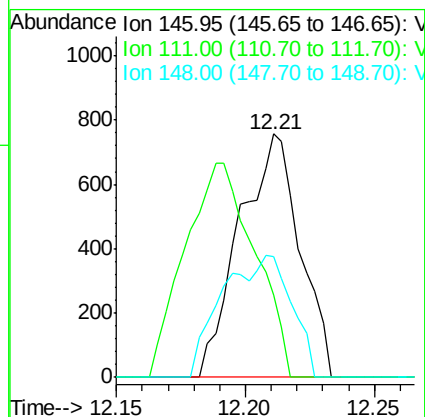
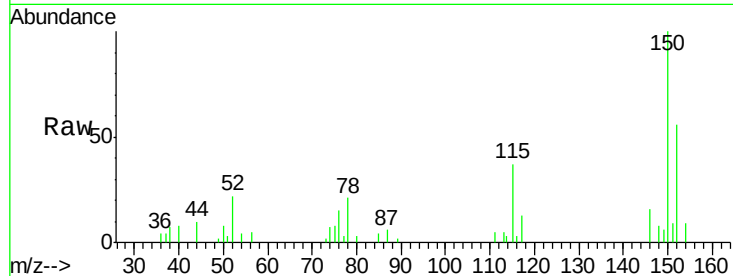




#65  
 1,2-Dichlorobenzene  
 Concen: 0.067 ug/L  
 RT: 12.21 min Scan# 3381  
 Delta R.T. 0.01 min  
 Lab File: VU040404.D  
 Acq: 30 Sep 2020 17:36

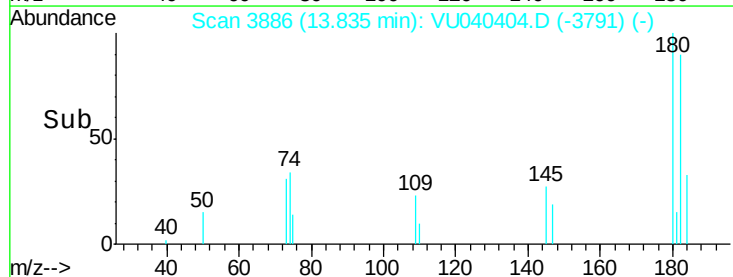
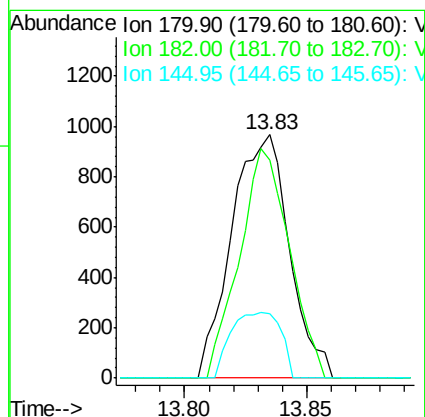
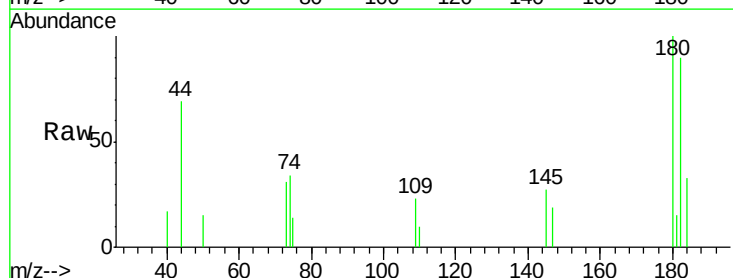
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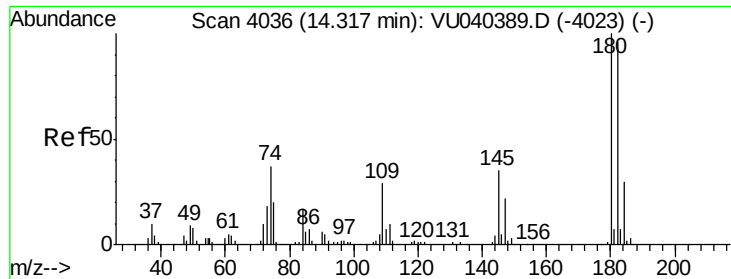
Tot Ion:146 Resp: 1233  
 Ion Ratio Lower Upper  
 146 100  
 111 33.8 35.6 53.4#  
 148 49.7 49.8 74.6#



#68  
 1,2,4-trichlorobenzene  
 Concen: 0.147 ug/L  
 RT: 13.83 min Scan# 3886  
 Delta R.T. 0.01 min  
 Lab File: VU040404.D  
 Acq: 30 Sep 2020 17:36

Tgt Ion:180 Resp: 1587  
 Ion Ratio Lower Upper  
 180 100  
 182 81.6 76.6 115.0  
 145 23.3 26.3 39.5#

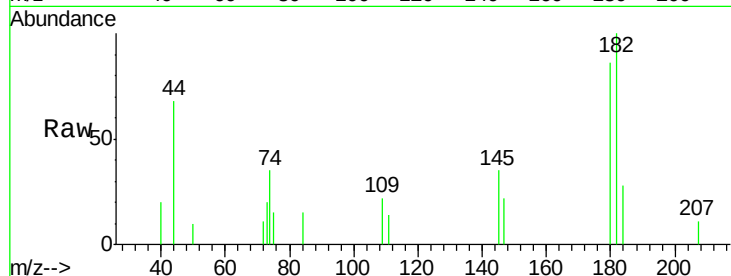




#70  
 1,2,3-Trichlorobenzene  
 Concen: 0.157 ug/L  
 RT: 14.32 min Scan# 4037  
 Delta R.T. 0.00 min  
 Lab File: VU040404.D  
 Acq: 30 Sep 2020 17:36

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VIBLK66

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.7  | 76.6  | 115.0 |
| 145     | 40.5  | 27.8  | 41.6  |



Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

