

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060220\  
 Data File : VU038491.D  
 Acq On : 02 Jun 2020 14:16  
 Operator : JC/MD  
 Sample : L2846-03  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jun 03 00:50:43 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR053120WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Jun 03 00:48:29 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 311480   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 309537   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 144695   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 83958    | 4.17     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 83.40%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 71078    | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 91.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 135656   | 3.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 68.40%  |
| 20) 2-Butanone-d5              | 4.68   | 46    | 210948   | 34.45    | ug/L | -0.01   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 68.90%  |
| 24) Chloroform-d               | 5.10   | 84    | 177536   | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 101977   | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.80%  |
| 32) Benzene-d6                 | 5.76   | 84    | 354367   | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 110252   | 4.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 92.80%  |
| 41) Toluene-d8                 | 7.93   | 98    | 292307   | 4.22     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 84.40%  |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 44078    | 4.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 86.20%  |
| 46) 2-Hexanone-d5              | 8.66   | 63    | 270591   | 53.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 107.24% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 99092    | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.21  | 152   | 120086   | 4.81     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 96.20%  |

## Target Compounds

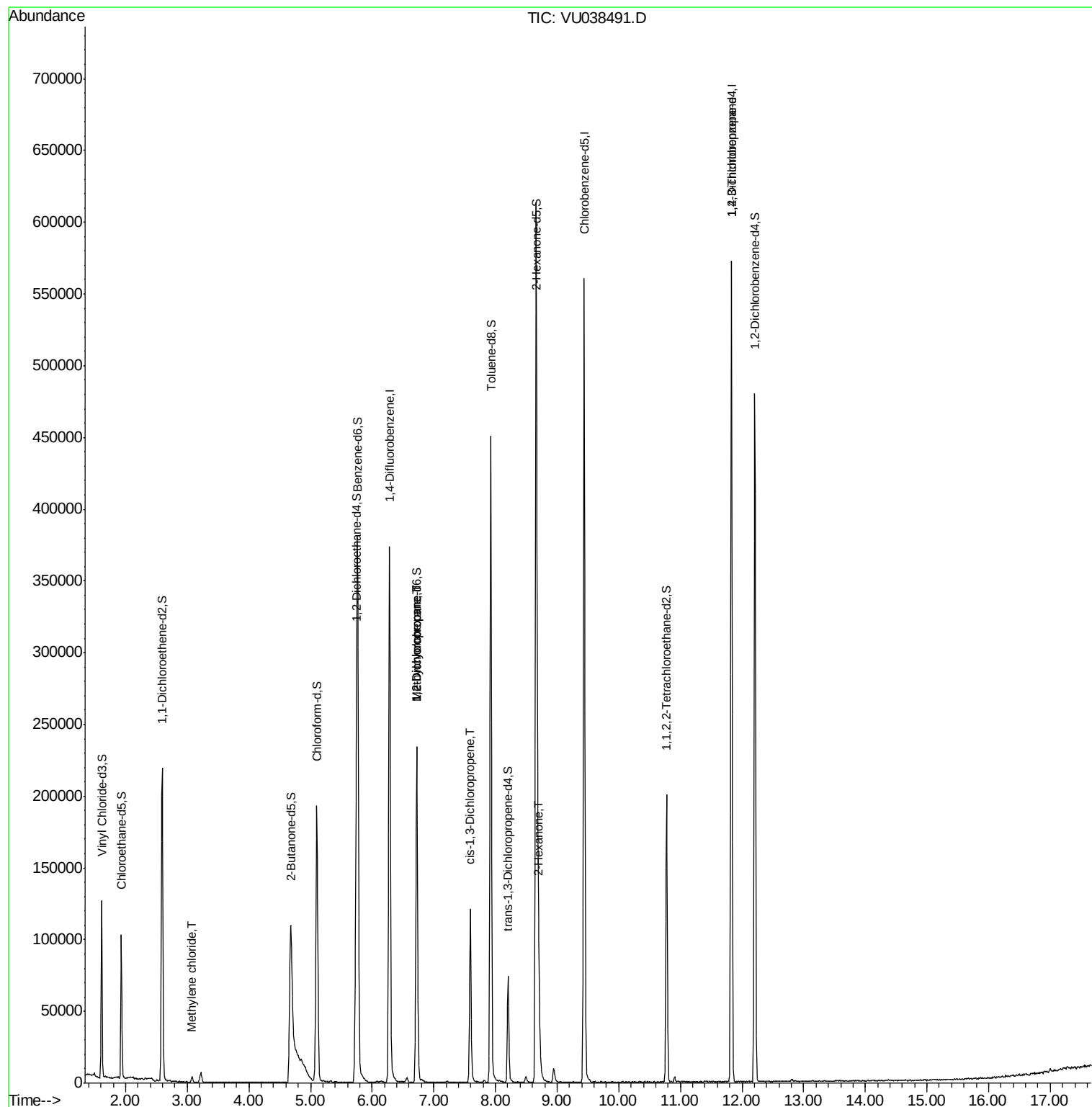
| Target Compounds            | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|-----------------------------|-------|------|----------|-------|--------|--------|
| 16) Methylene chloride      | 3.08  | 84   | 1648     | 0.076 | ug/L   | 84     |
| 35) Methylcyclohexane       | 6.72  | 83   | 26713    | 0.770 | ug/L # | 17     |
| 37) 1,2-Dichloropropane     | 6.72  | 63   | 12297    | 0.566 | ug/L # | 86     |
| 39) cis-1,3-Dichloropropene | 7.59  | 75   | 3038     | 0.095 | ug/L # | 41     |
| 48) 2-Hexanone              | 8.71  | 43   | 14029    | 1.193 | ug/L # | 75     |
| 59) 1,2,3-Trichloropropane  | 11.83 | 75   | 18241    | 1.125 | ug/L # | 85     |

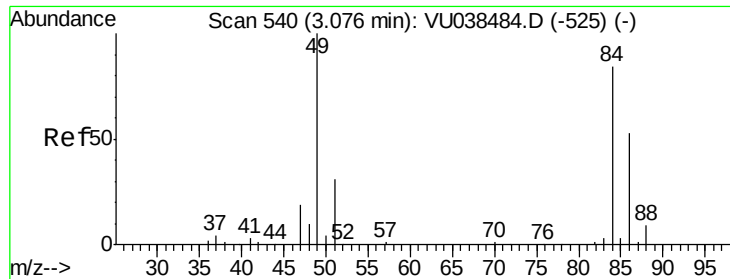
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 1 Sample Multiplier: 1

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MSVOA\_U  
ClientSampleId :

Quant Time: Jun 03 00:50:43 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR053120WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Jun 03 00:48:29 2020  
Response via : Initial Calibration

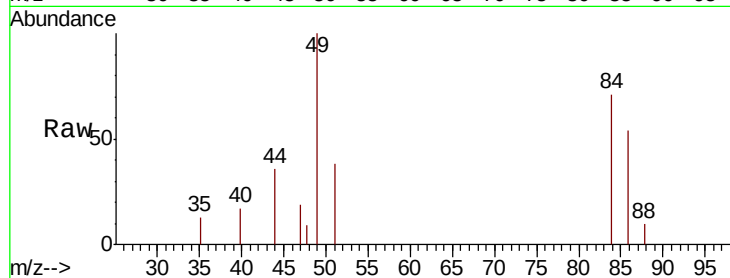




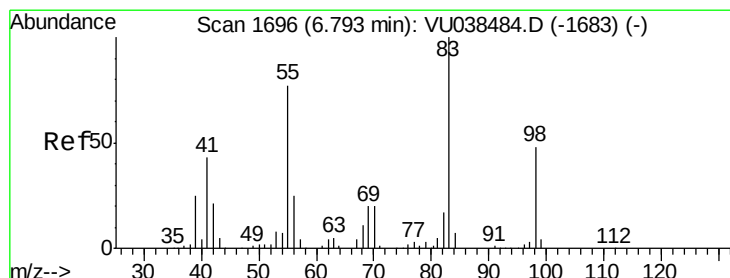
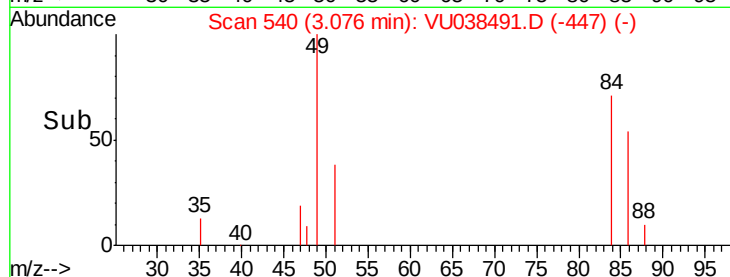
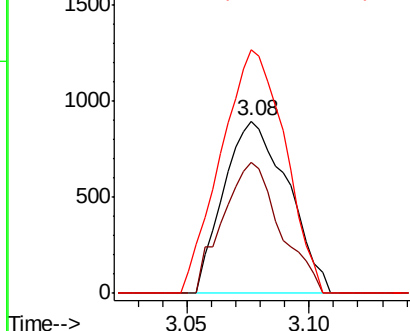
#16  
Methylene chloride  
Concen: 0.076 ug/L  
RT: 3.08 min Scan# 540  
Delta R.T. 0.00 min  
Lab File: VU038491.D  
Acq: 02 Jun 2020 14:16

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 84 Resp: 1648  
Ion Ratio Lower Upper  
84 100  
86 76.2 45.0 83.6  
49 141.1 85.5 158.9

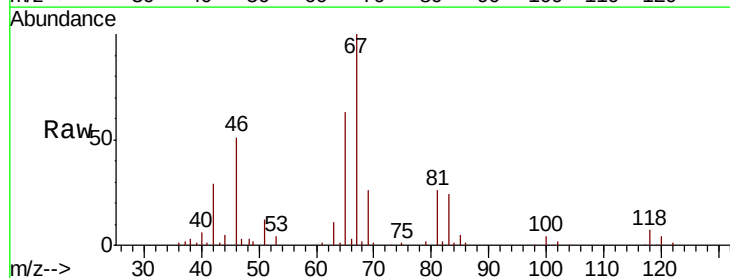


Abundance Ion 84.05 (83.75 to 84.75): VU0  
Ion 86.00 (85.70 to 86.70): VU0  
Ion 49.10 (48.80 to 49.80): VU0

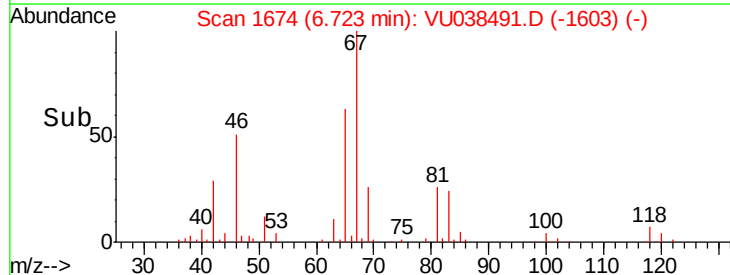
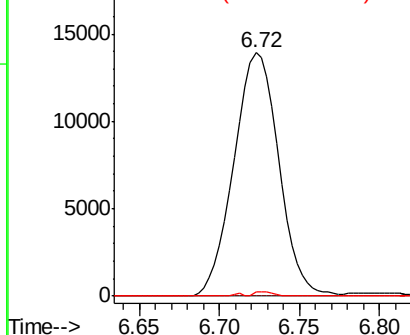


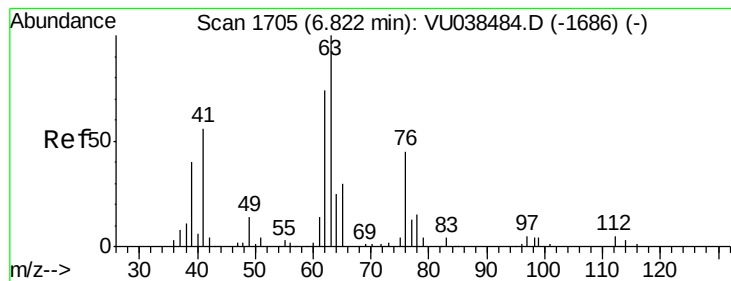
#35  
Methylcyclohexane  
Concen: 0.770 ug/L  
RT: 6.72 min Scan# 1674  
Delta R.T. -0.07 min  
Lab File: VU038491.D  
Acq: 02 Jun 2020 14:16

Tgt Ion: 83 Resp: 26713  
Ion Ratio Lower Upper  
83 100  
55 0.0 63.4 95.2#  
98 0.7 39.0 58.4#



Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.566 ug/L

RT: 6.72 min Scan# 1674

Delta R.T. -0.10 min

Lab File: VU038491.D

Acq: 02 Jun 2020 14:16

Instrument :

MSVOA\_U

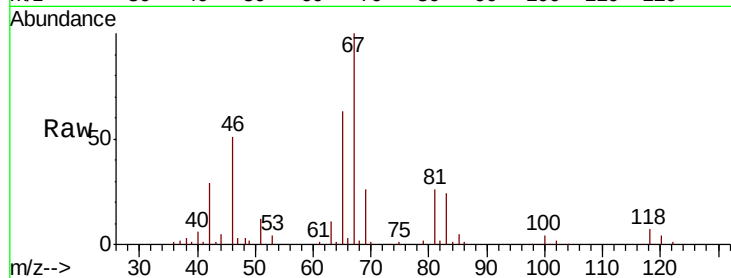
ClientSampleId :

Tot Ion: 63 Resp: 12297

Ion Ratio Lower Upper

63 100

112 0.0 3.7 5.5#



Abundance Ion 63.10 (62.80 to 63.80): VU038484.D (-1686) (-)

Ion 112.10 (111.80 to 112.80): VU038484.D (-1686) (-)

6.72

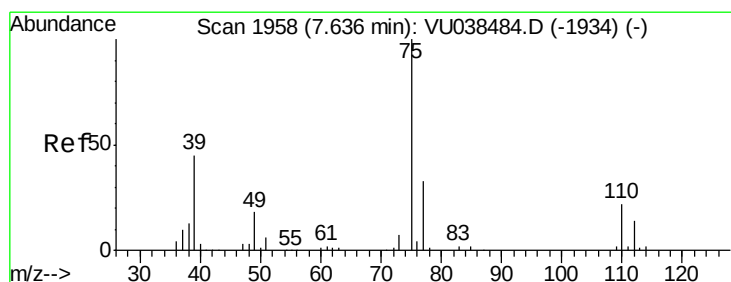
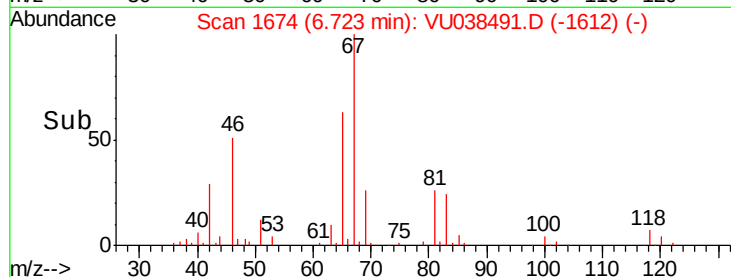
6000

4000

2000

0

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.095 ug/L

RT: 7.59 min Scan# 1944

Delta R.T. -0.04 min

Lab File: VU038491.D

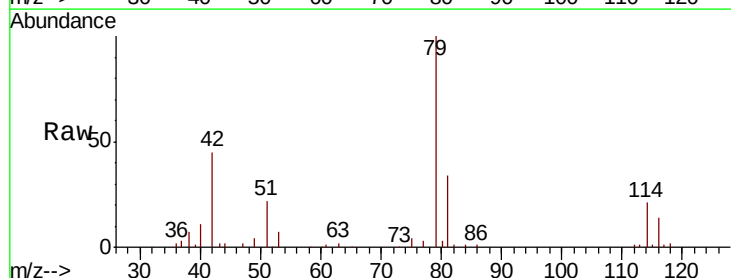
Acq: 02 Jun 2020 14:16

Tgt Ion: 75 Resp: 3038

Ion Ratio Lower Upper

75 100

77 63.8 21.9 40.7#



Abundance Ion 75.05 (74.75 to 75.75): VU038484.D (-1934) (-)

Ion 77.05 (76.75 to 77.75): VU038484.D (-1934) (-)

7.59

2000

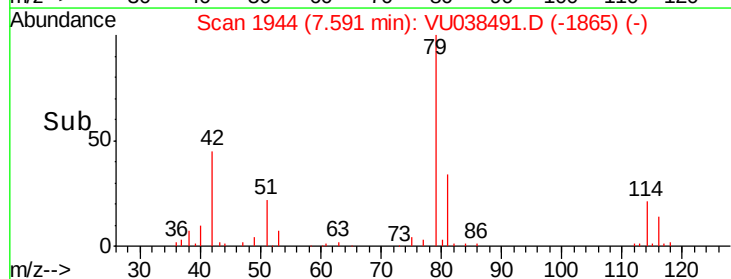
1500

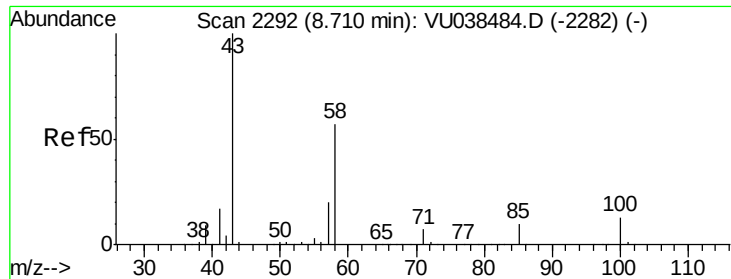
1000

500

0

Time-->

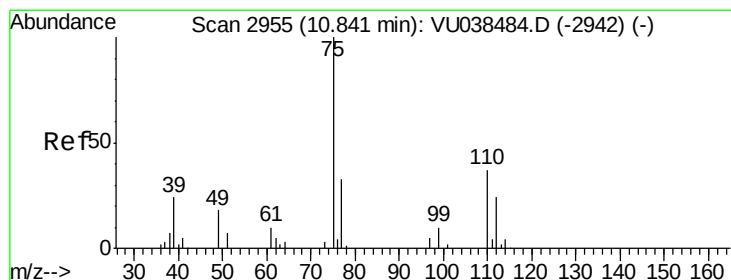
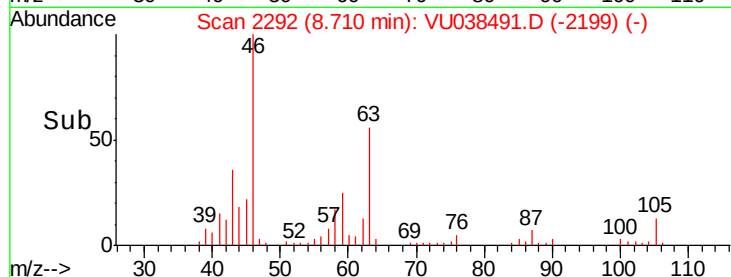
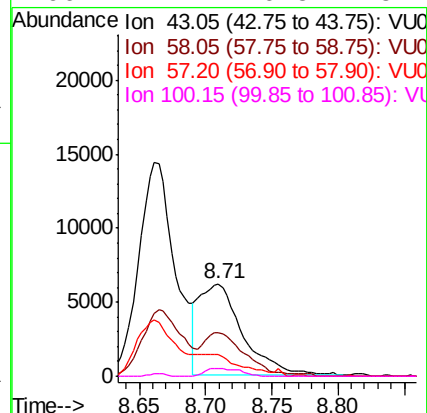
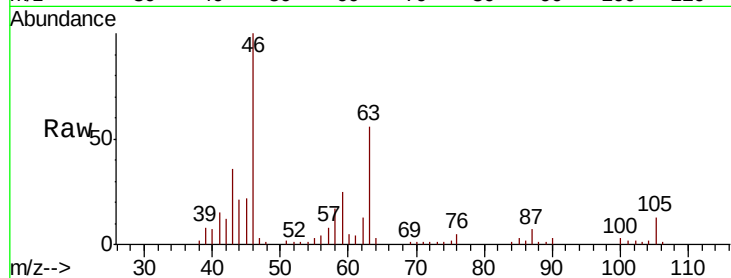




#48  
 2-Hexanone  
 Concen: 1.193 ug/L  
 RT: 8.71 min Scan# 2292  
 Delta R.T. 0.00 min  
 Lab File: VU038491.D  
 Acq: 02 Jun 2020 14:16

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion: 43 Resp: 14029  
 Ion Ratio Lower Upper  
 43 100  
 58 41.6 45.4 68.0#  
 57 0.0 15.9 23.9#  
 100 7.2 10.5 15.7#



#59  
 1,2,3-Trichloropropane  
 Concen: 1.125 ug/L  
 RT: 11.83 min Scan# 3262  
 Delta R.T. 0.99 min  
 Lab File: VU038491.D  
 Acq: 02 Jun 2020 14:16

Tgt Ion: 75 Resp: 18241  
 Ion Ratio Lower Upper  
 75 100  
 77 40.2 25.4 38.2#

