

Data File : VU030434.D  
Acq On : 26 Mar 2019 11:13  
Operator : JC/SP  
Sample : K2022-20RE  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C09J4

Quant Time: Mar 27 04:33:13 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Mar 27 04:29:49 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 451509   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 434619   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 169545   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 195277   | 53.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 107.48% |
| 7) Chloroethane-d5             | 1.67    | 69    | 153159   | 53.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 106.36% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 268818   | 39.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 78.00%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 330120   | 96.64    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 96.64%  |
| 24) Chloroform-d               | 4.64    | 84    | 312137   | 49.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.72%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 210305   | 51.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.66% |
| 32) Benzene-d6                 | 5.34    | 84    | 642910   | 51.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.16% |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 226041   | 53.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 106.02% |
| 41) Toluene-d8                 | 7.56    | 98    | 556372   | 49.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.40%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 99280    | 49.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 99.02%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 202101   | 87.46    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 87.46%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 292701   | 47.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 95.94%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 179021   | 52.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 105.40% |

#### Target Compounds

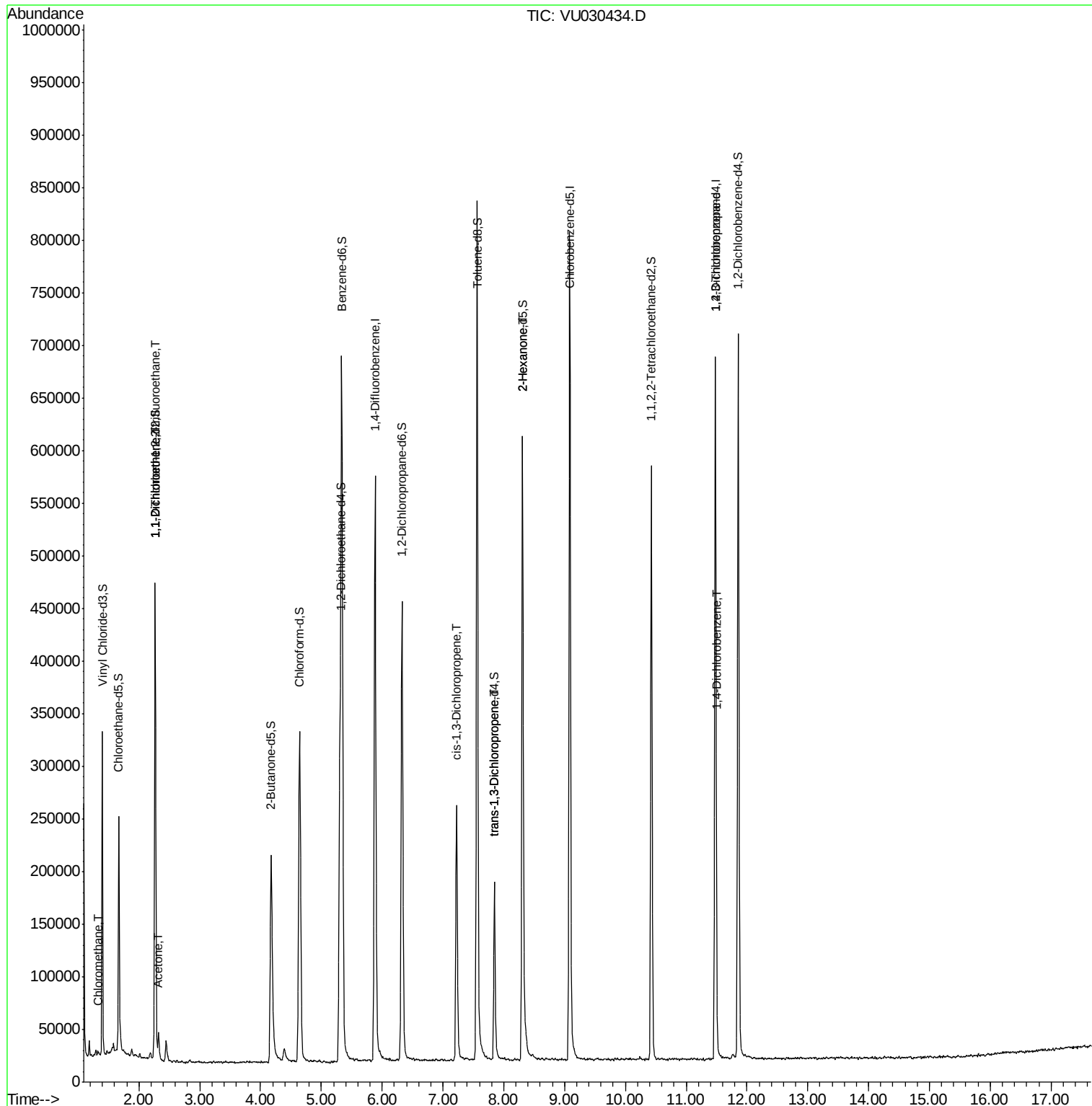
|                                |       |     |       |              | Qvalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 3) Chloromethane               | 1.33  | 50  | 3641  | 0.653 ug/L   | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 2125  | 0.645 ug/L # | 21     |
| 12) 1,1-Dichloroethene         | 2.27  | 96  | 2026  | 0.627 ug/L # | 1      |
| 13) Acetone                    | 2.32  | 43  | 21494 | 6.222 ug/L   | 96     |
| 39) cis-1,3-Dichloropropene    | 7.22  | 75  | 5071  | 0.840 ug/L # | 65     |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 3867  | 0.728 ug/L   | 84     |
| 48) 2-Hexanone                 | 8.31  | 43  | 25671 | 4.441 ug/L # | 73     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 23003 | 4.501 ug/L   | 89     |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146 | 3065  | 0.537 ug/L   | 92     |

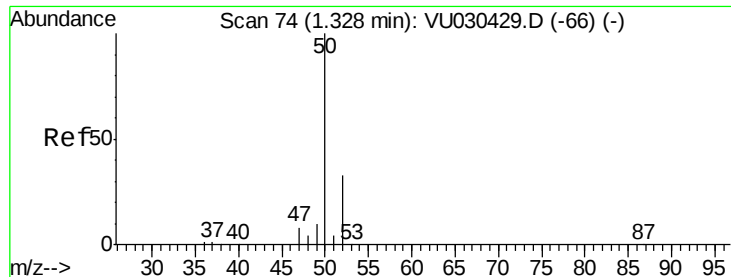
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.653 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU030434.D

Acq: 26 Mar 2019 11:13

Instrument :

MSVOA\_U

ClientSampleId :

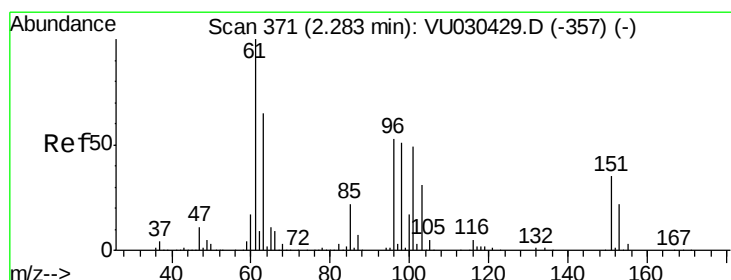
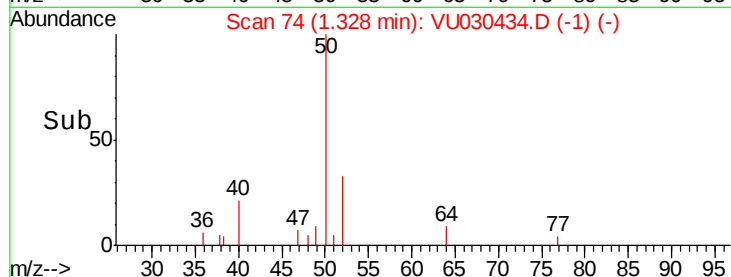
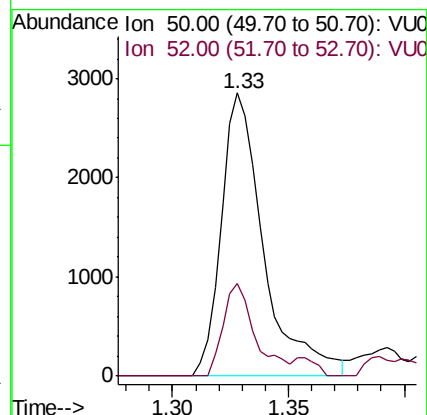
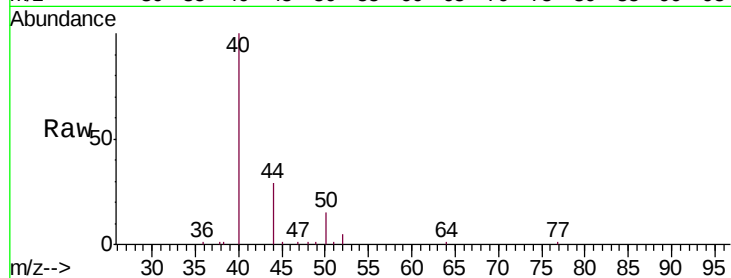
C09J4

Tgt Ion: 50 Resp: 3641

Ion Ratio Lower Upper

50 100

52 32.9 23.0 42.6



#10

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

Concen: 0.645 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.02 min

Lab File: VU030434.D

Acq: 26 Mar 2019 11:13

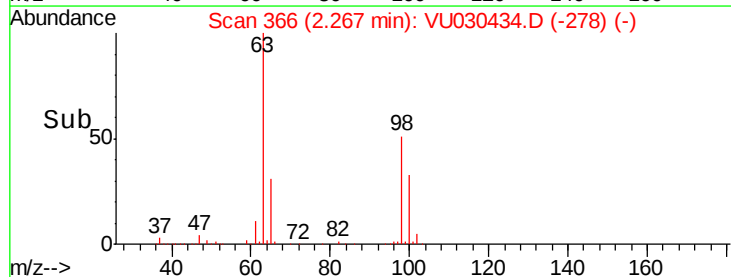
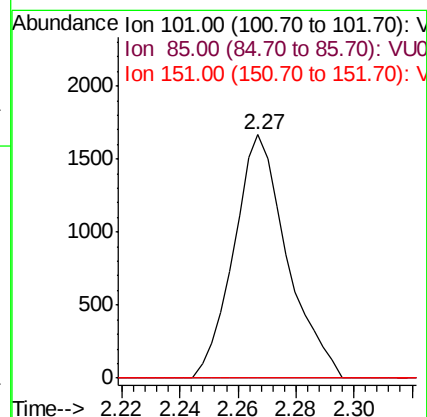
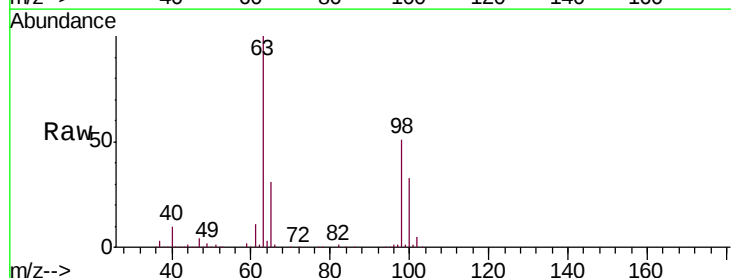
Tgt Ion: 101 Resp: 2125

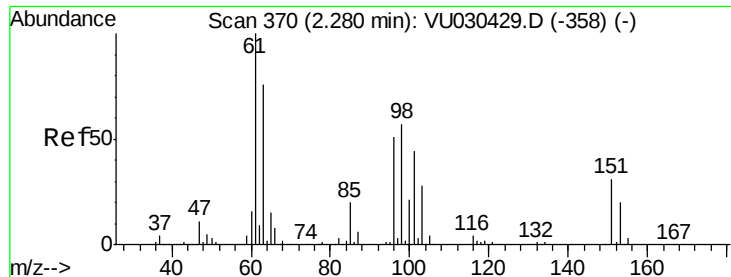
Ion Ratio Lower Upper

101 100

85 0.0 34.8 52.2#

151 0.0 56.6 85.0#

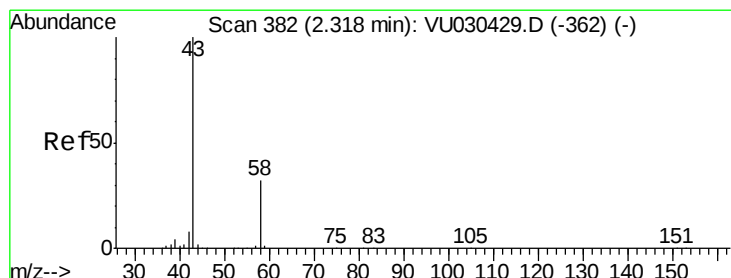
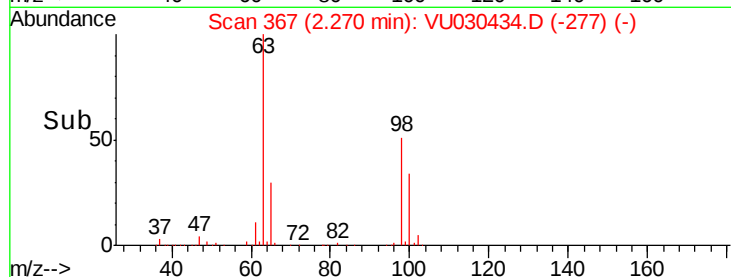
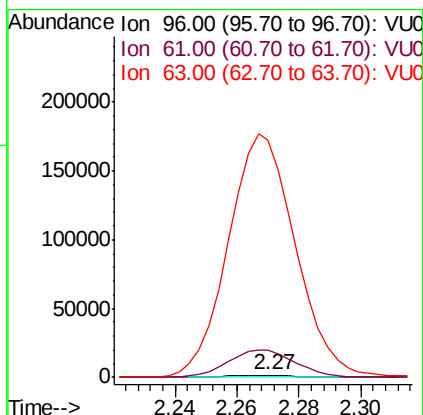
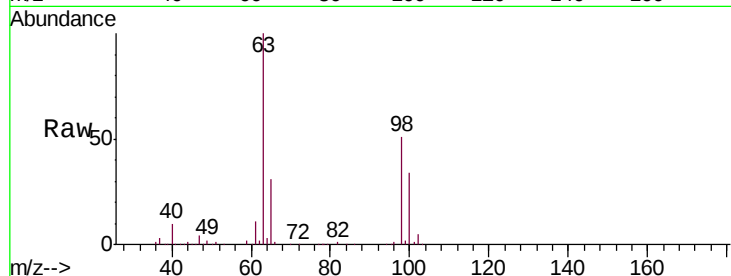




#12  
 1,1-Dichloroethene  
 Concen: 0.627 ug/L  
 RT: 2.27 min Scan# 367  
 Delta R.T. -0.01 min  
 Lab File: VU030434.D  
 Acq: 26 Mar 2019 11:13

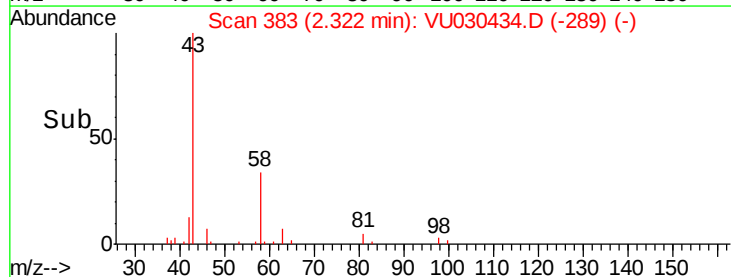
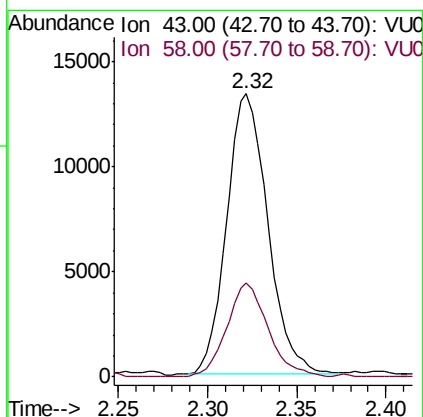
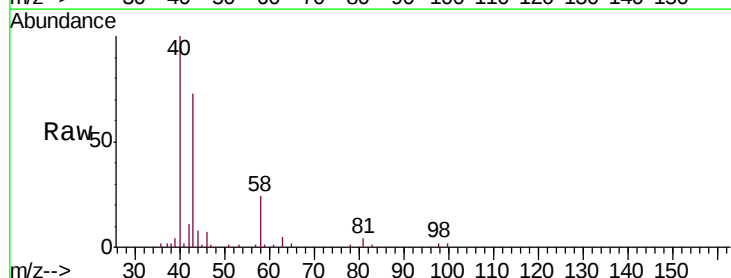
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09J4

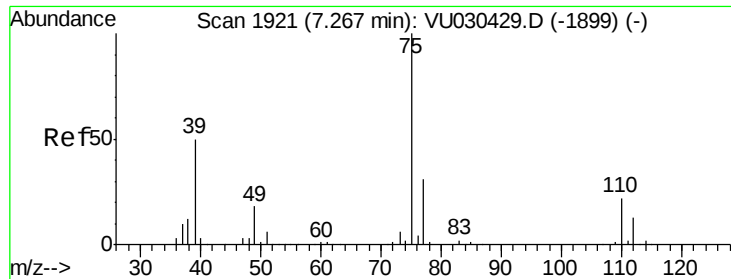
Tgt Ion: 96 Resp: 2026  
 Ion Ratio Lower Upper  
 96 100  
 61 1412.8 131.0 243.4#  
 63 12517.1 92.4 171.6#



#13  
 Acetone  
 Concen: 6.222 ug/L  
 RT: 2.32 min Scan# 383  
 Delta R.T. 0.00 min  
 Lab File: VU030434.D  
 Acq: 26 Mar 2019 11:13

Tgt Ion: 43 Resp: 21494  
 Ion Ratio Lower Upper  
 43 100  
 58 33.5 0.0 62.8

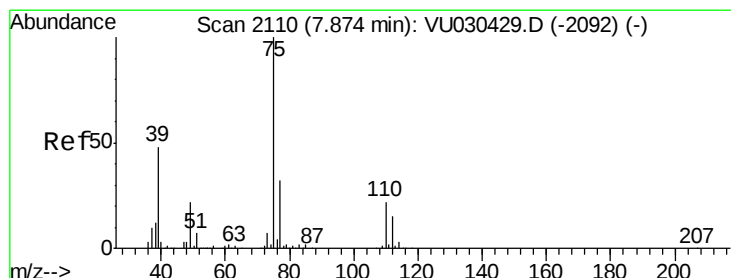
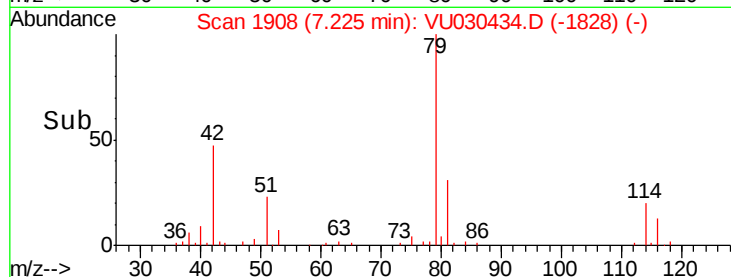
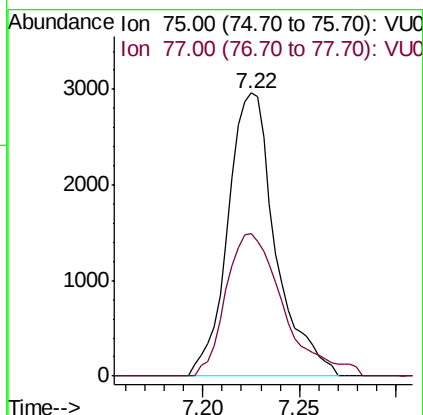
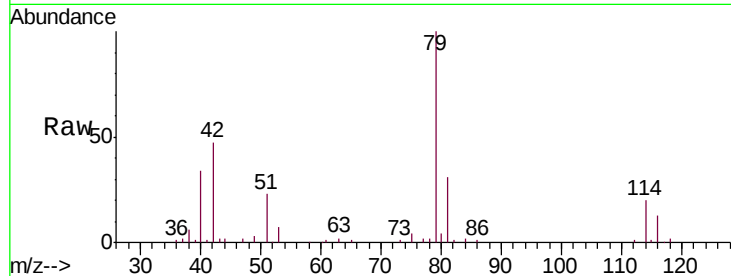




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.840 ug/L  
 RT: 7.22 min Scan# 1908  
 Delta R.T. -0.04 min  
 Lab File: VU030434.D  
 Acq: 26 Mar 2019 11:13

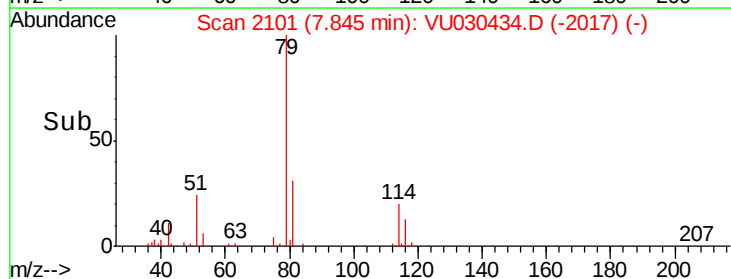
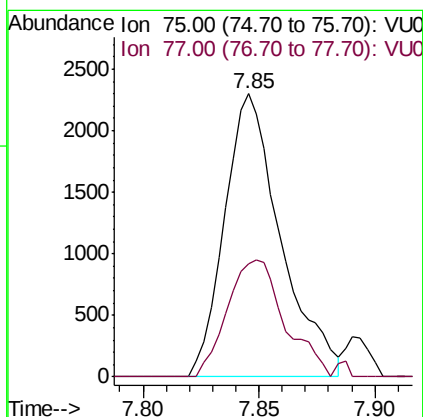
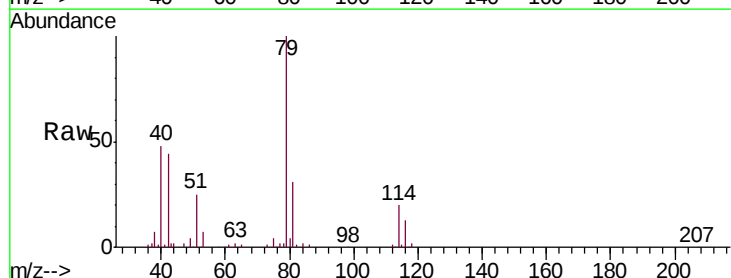
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
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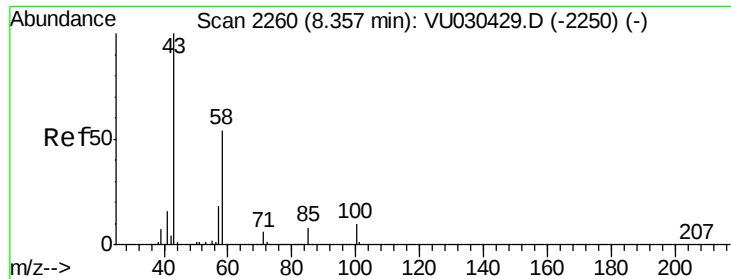
Tgt Ion: 75 Resp: 5071  
 Ion Ratio Lower Upper  
 75 100  
 77 50.3 21.8 40.6#



#44  
 trans-1,3-Dichloropropene  
 Concen: 0.728 ug/L  
 RT: 7.85 min Scan# 2101  
 Delta R.T. -0.03 min  
 Lab File: VU030434.D  
 Acq: 26 Mar 2019 11:13

Tgt Ion: 75 Resp: 3867  
 Ion Ratio Lower Upper  
 75 100  
 77 40.1 22.0 40.8

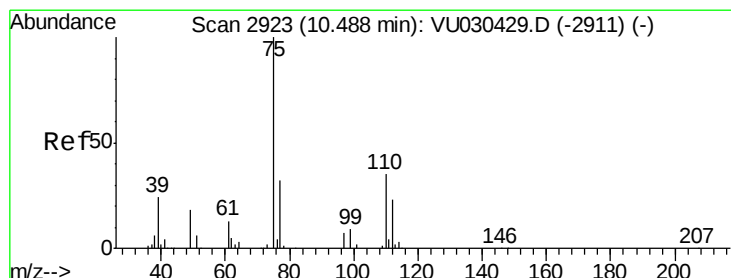
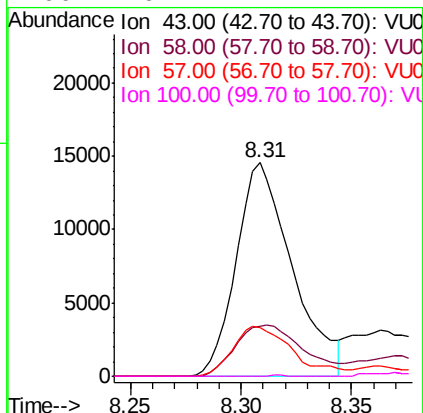
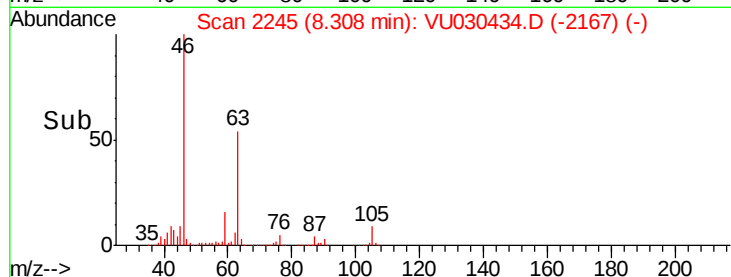
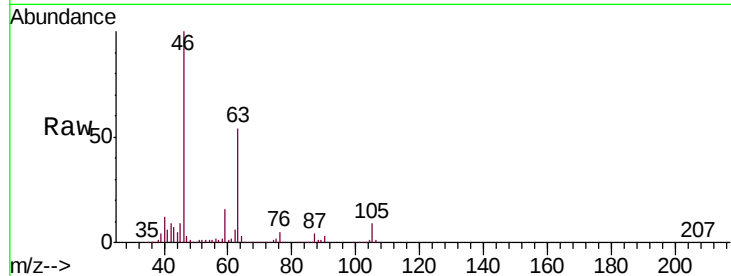




#48  
2-Hexanone  
Concen: 4.441 ug/L  
RT: 8.31 min Scan# 2245  
Delta R.T. -0.05 min  
Lab File: VU030434.D  
Acq: 26 Mar 2019 11:13

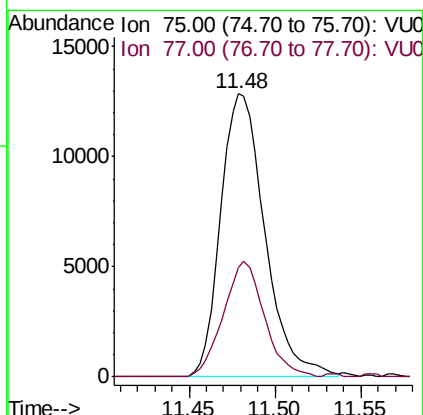
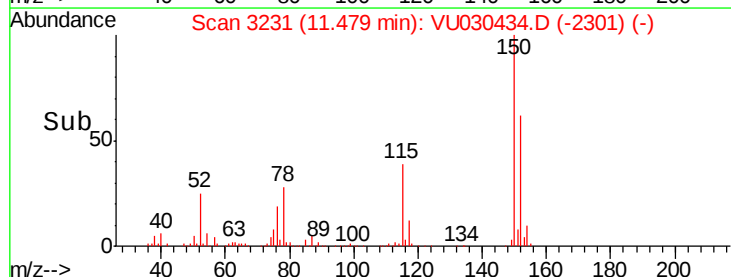
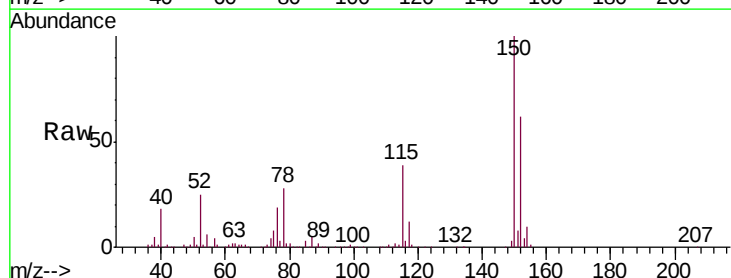
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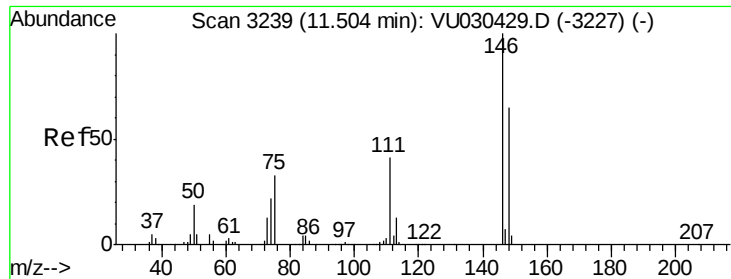
Tgt Ion: 43 Resp: 25671  
Ion Ratio Lower Upper  
43 100  
58 28.7 42.5 63.7#  
57 23.0 15.0 22.6#  
100 0.2 7.4 11.2#



#59  
1,2,3-Trichloropropane  
Concen: 4.501 ug/L  
RT: 11.48 min Scan# 3231  
Delta R.T. 0.99 min  
Lab File: VU030434.D  
Acq: 26 Mar 2019 11:13

Tgt Ion: 75 Resp: 23003  
Ion Ratio Lower Upper  
75 100  
77 37.9 25.4 38.2





#63  
 1,4-Dichlorobenzene  
 Concen: 0.537 ug/L  
 RT: 11.50 min Scan# 3239  
 Delta R.T. 0.00 min  
 Lab File: VU030434.D  
 Acq: 26 Mar 2019 11:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09J4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 47.8  | 28.7  | 53.3  |
| 148     | 68.4  | 44.3  | 82.3  |

