

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041119\  
 Data File : VU031113.D  
 Acq On : 12 Apr 2019 08:38  
 Operator : JC/SP  
 Sample : K2341-14  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 105 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB736

Manual Integrations  
 APPROVED

MMDadoda  
 4/15/2019 9:15:38 AM

Quant Time: Apr 12 23:45:23 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Apr 12 23:21:49 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 527526   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 518552   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 228019   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 152965   | 32.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 64.96%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 131560   | 36.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 73.62%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 225660   | 26.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 52.98%# |
| 21) 2-Butanone-d5              | 4.17    | 46    | 338482   | 90.69    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 90.69%  |
| 24) Chloroform-d               | 4.64    | 84    | 307733   | 42.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.56%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 214800   | 43.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 87.52%  |
| 32) Benzene-d6                 | 5.34    | 84    | 615307   | 40.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 81.30%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 220820   | 42.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 85.12%  |
| 41) Toluene-d8                 | 7.56    | 98    | 523577   | 39.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 78.04%# |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 86325    | 36.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 72.98%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 197484   | 83.29    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 83.29%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 308069   | 44.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 88.04%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 204702   | 45.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.30%  |

## Target Compounds

|                              |      |     |         |               | Ovalue |
|------------------------------|------|-----|---------|---------------|--------|
| 5) Vinyl chloride            | 1.40 | 62  | 4276    | 0.737 ug/L #  | 1      |
| 13) Acetone                  | 2.32 | 43  | 30078   | 7.876 ug/L    | 93     |
| 17) trans-1,2-Dichloroethene | 2.98 | 96  | 28599   | 7.386 ug/L    | 95     |
| 20) cis-1,2-Dichloroethene   | 4.22 | 96  | 1963760 | 459.345 ug/L  | 91     |
| 34) Trichloroethene          | 6.18 | 95  | 2019448 | 485.210 ug/L  | 97     |
| 38) Bromodichloromethane     | 6.75 | 83  | 8575m   | 1.479 ug/L    |        |
| 42) Toluene                  | 7.63 | 91  | 114096  | 6.587 ug/L    | 94     |
| 46) Tetrachloroethene        | 8.22 | 164 | 5357528 | 1770.554 ug/L | 100    |

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

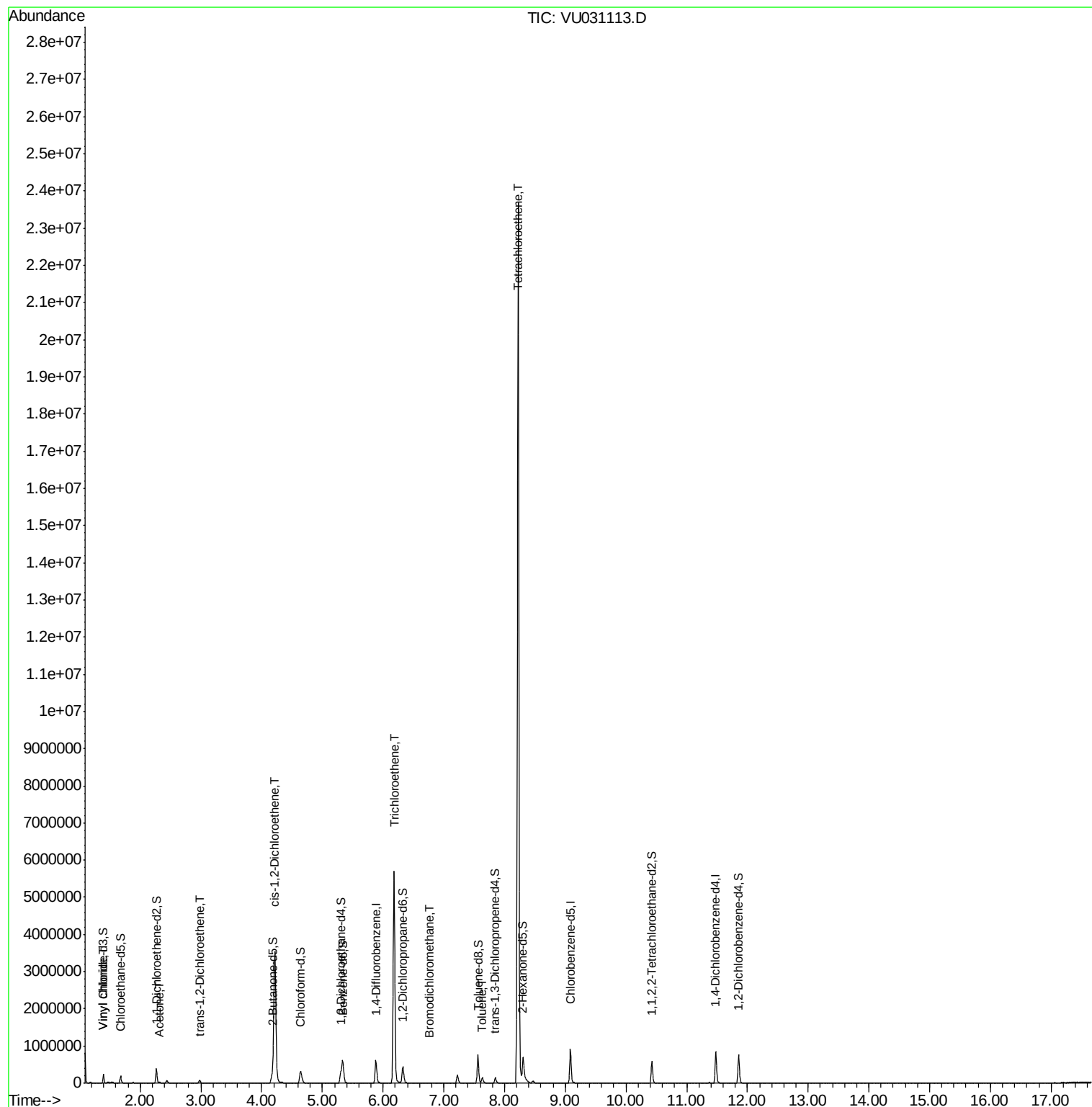
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU041119\  
Data File : VU031113.D  
Acq On : 12 Apr 2019 08:38  
Operator : JC/SP  
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ALS Vial : 105 Sample Multiplier: 1

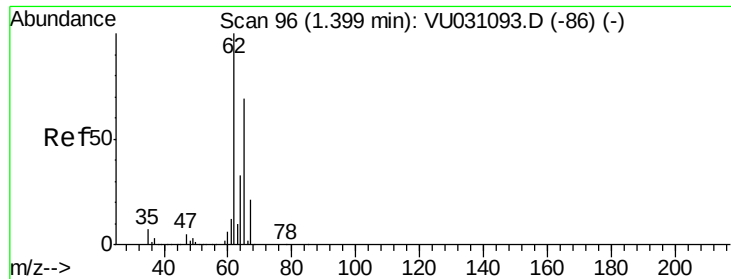
Instrument :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Apr 12 23:21:49 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.737 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU031113.D

Acq: 12 Apr 2019 08:38

Instrument :

MSVOA\_U

ClientSampleId :

DB736

Tot Ion: 62 Resp: 4276

Ion Ratio Lower Upper

62 100

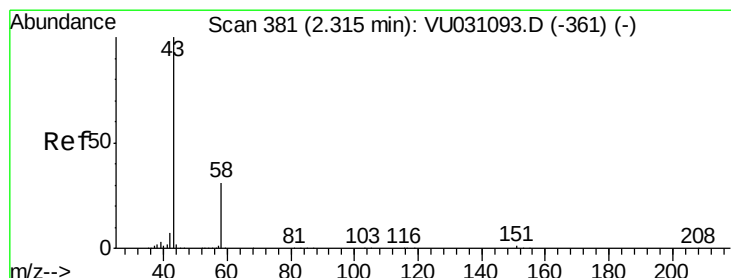
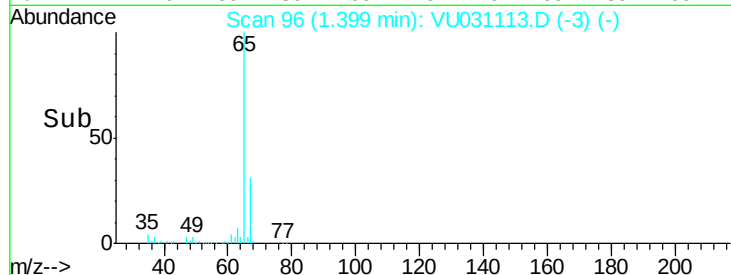
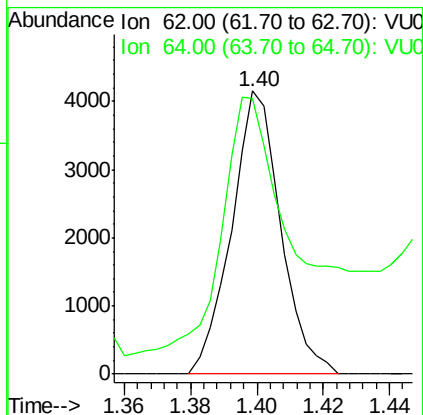
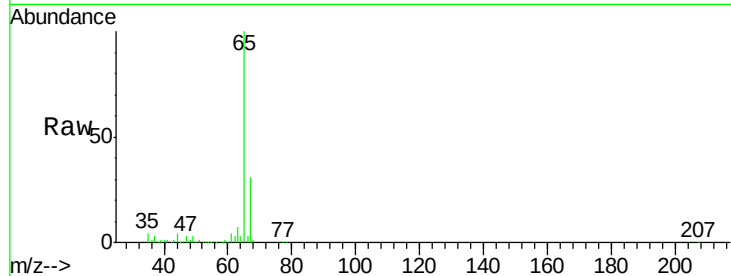
64 97.2 21.5 39.9#

Manual Integrations

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#13

Acetone

Concen: 7.876 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU031113.D

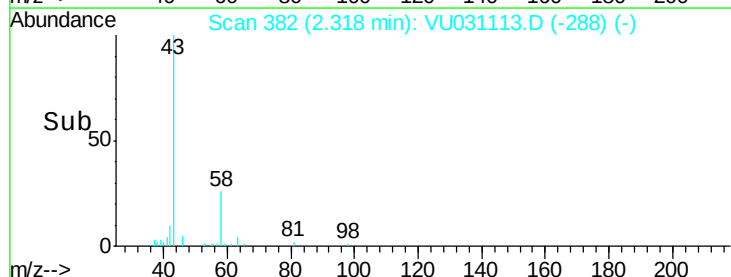
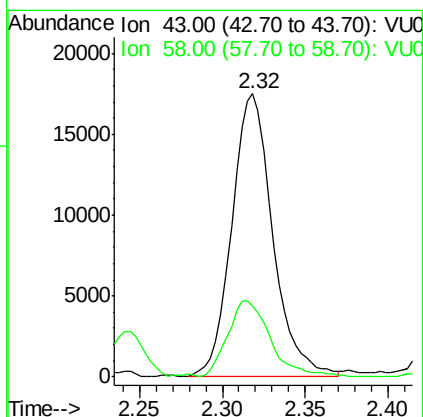
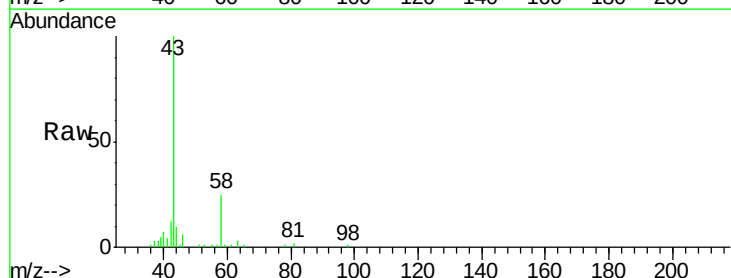
Acq: 12 Apr 2019 08:38

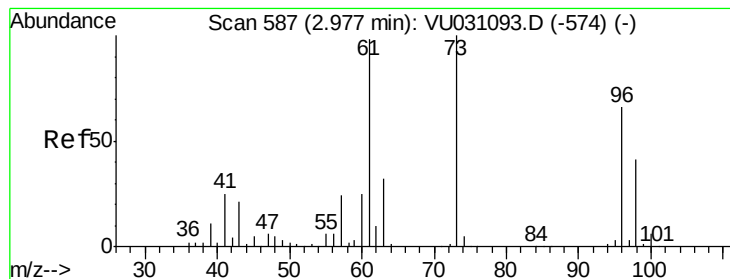
Tgt Ion: 43 Resp: 30078

Ion Ratio Lower Upper

43 100

58 28.2 0.0 64.0





#17

trans-1,2-Dichloroethene

Concen: 7.386 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU031113.D

Acq: 12 Apr 2019 08:38

Instrument :

MSVOA\_U

ClientSampleId :

DB736

Tot Ion: 96 Resp: 28599

Ion Ratio Lower Upper

96 100

61 147.9 109.5 203.3

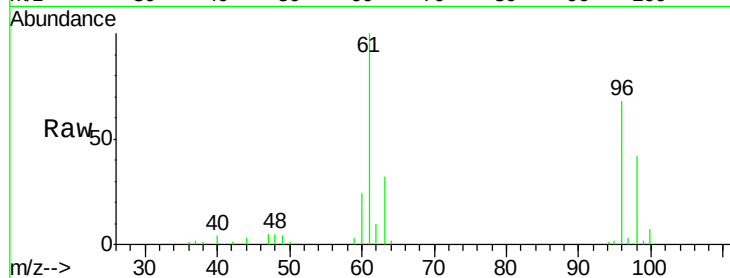
98 61.5 44.0 81.6

Manual Integrations

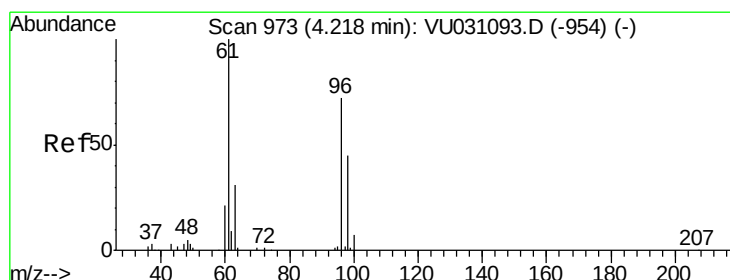
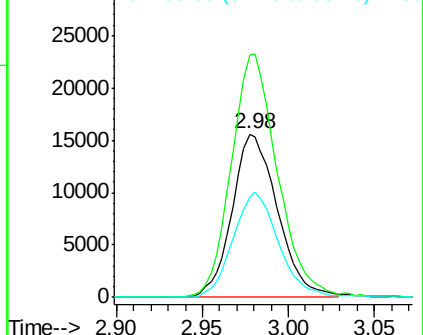
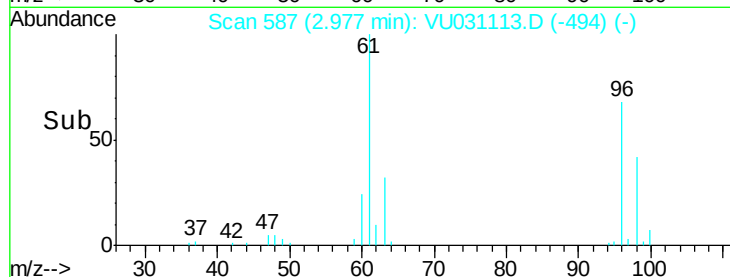
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Abundance Ion 96.00 (95.70 to 96.70): VU031113.D (-494) (-)



#20

cis-1,2-Dichloroethene

Concen: 459.345 ug/L

RT: 4.22 min Scan# 973

Delta R.T. 0.00 min

Lab File: VU031113.D

Acq: 12 Apr 2019 08:38

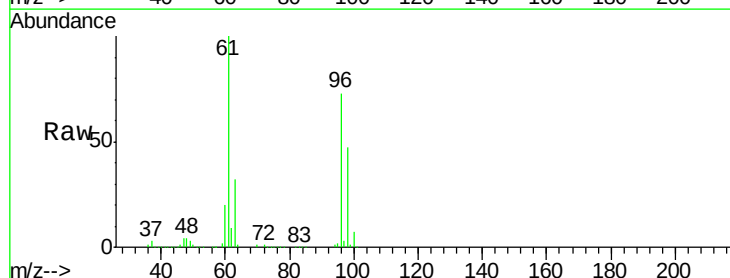
Tgt Ion: 96 Resp: 1963760

Ion Ratio Lower Upper

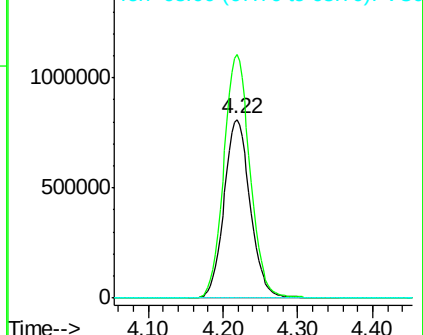
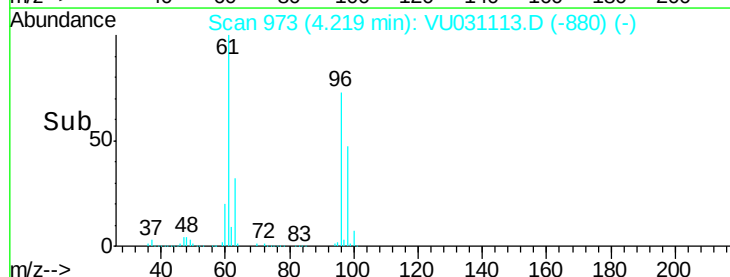
96 100

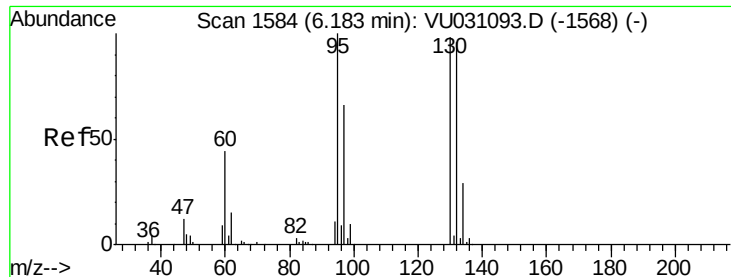
61 136.3 102.9 191.1

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU031113.D (-880) (-)





#34

Trichloroethene

Concen: 485.210 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU031113.D

Acq: 12 Apr 2019 08:38

Instrument :

MSVOA\_U

ClientSampleId :

DB736

Tot Ion: 95 Resp: 2019448

Ion Ratio Lower Upper

95 100

97 64.4 44.5 82.7

132 92.2 61.5 114.1

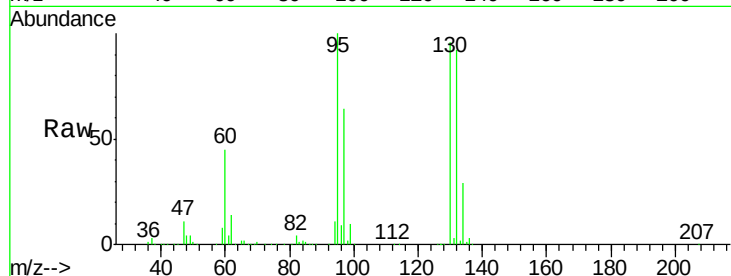
130 95.6 64.9 120.5

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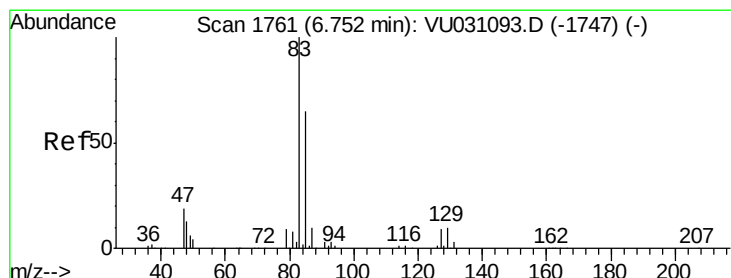
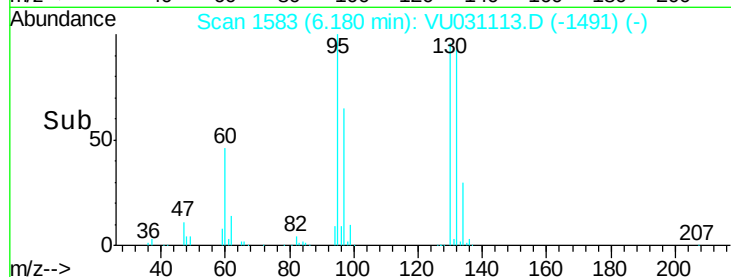
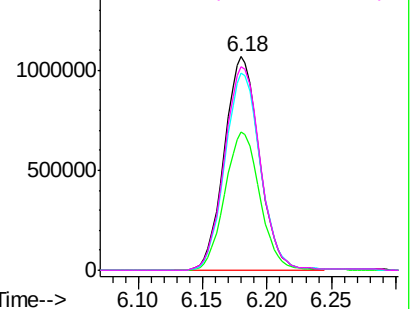


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#38

Bromodichloromethane

Concen: 1.479 ug/L m

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU031113.D

Acq: 12 Apr 2019 08:38

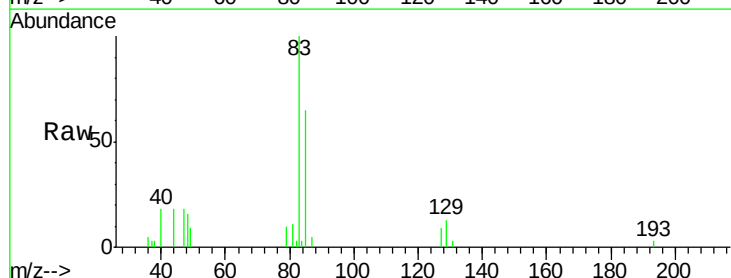
Tgt Ion: 83 Resp: 8575

Ion Ratio Lower Upper

83 100

85 64.8 46.5 86.3

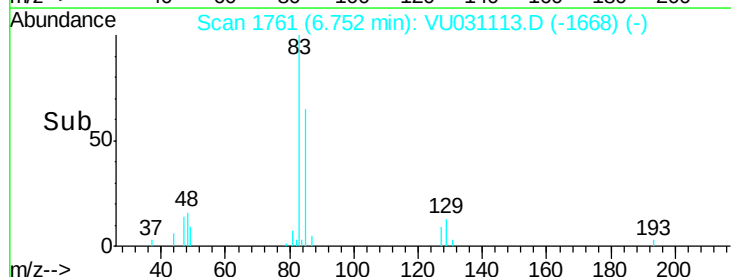
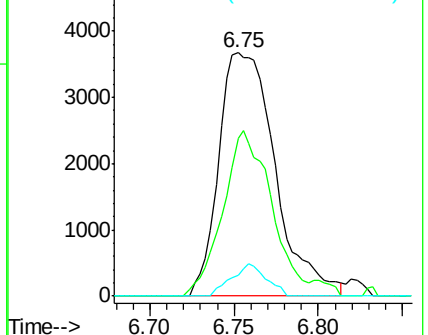
127 8.7 6.6 10.0

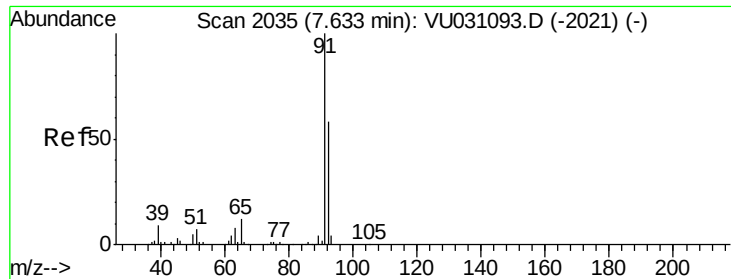


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 127.00 (126.70 to 127.70): V





#42

Toluene

Concen: 6.587 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031113.D

Acq: 12 Apr 2019 08:38

Instrument :

MSVOA\_U

ClientSampleId :

DB736

Tot Ion: 91 Resp: 114096

Ion Ratio Lower Upper

91 100

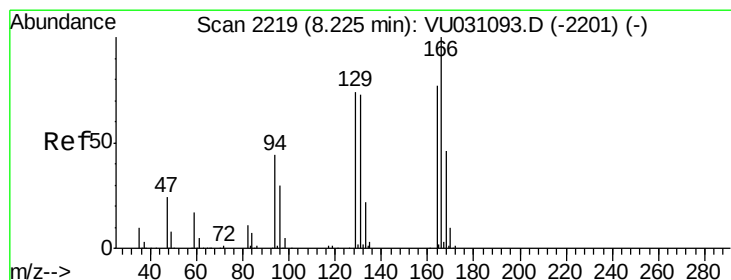
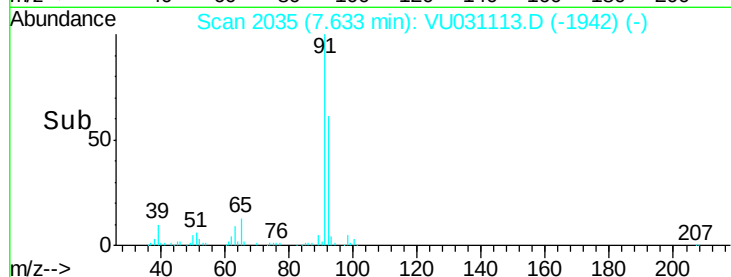
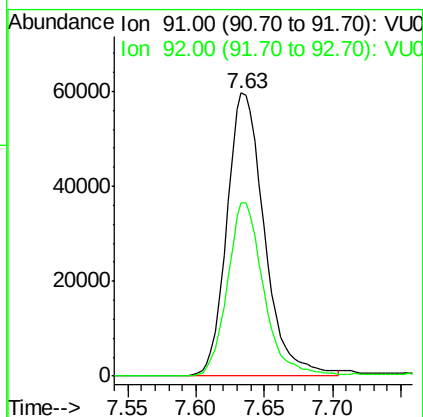
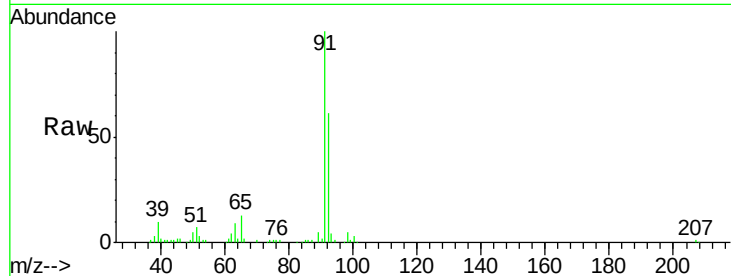
92 61.4 40.0 74.4

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#46

Tetrachloroethene

Concen: 1770.554 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU031113.D

Acq: 12 Apr 2019 08:38

Tgt Ion: 164 Resp: 5357528

Ion Ratio Lower Upper

164 100

129 96.8 67.4 125.2

131 93.4 65.9 122.5

166 126.6 88.6 164.6

