

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040619\  
 Data File : VU030771.D  
 Acq On : 06 Apr 2019 02:57  
 Operator : JC/SP  
 Sample : K2269-01  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0BR2

Manual Integrations  
 APPROVED

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 4/6/2019 10:33:02 AM

Quant Time: Apr 06 05:24:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Apr 06 02:16:29 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 444296   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 440628   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 193163   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 203864   | 51.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 102.80% |
| 7) Chloroethane-d5             | 1.68    | 69    | 156627   | 52.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 104.06% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 275819m  | 38.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 76.90%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 324813   | 103.33   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.33% |
| 24) Chloroform-d               | 4.64    | 84    | 307821   | 50.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.62% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 215269   | 52.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.14% |
| 32) Benzene-d6                 | 5.34    | 84    | 628785   | 48.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.76%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 216353   | 49.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.16%  |
| 41) Toluene-d8                 | 7.56    | 98    | 542076   | 47.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.08%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 82411    | 41.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 82.00%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 187052   | 92.84    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 92.84%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 290433   | 48.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 97.68%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 198664m  | 52.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 104.60% |

## Target Compounds

|                            |       |     |         |         | Ovalue   |
|----------------------------|-------|-----|---------|---------|----------|
| 13) Acetone                | 2.32  | 43  | 63826   | 19.843  | ug/L 99  |
| 33) Benzene                | 5.39  | 78  | 17586   | 1.220   | ug/L 100 |
| 34) Trichloroethene        | 6.19  | 95  | 4850    | 1.371   | ug/L 92  |
| 51) Chlorobenzene          | 9.12  | 112 | 290562  | 32.187  | ug/L 100 |
| 62) 1,3-Dichlorobenzene    | 11.41 | 146 | 36933   | 6.050   | ug/L 95  |
| 63) 1,4-Dichlorobenzene    | 11.50 | 146 | 344344  | 55.452  | ug/L 98  |
| 65) 1,2-Dichlorobenzene    | 11.87 | 146 | 1675906 | 273.673 | ug/L 99  |
| 68) 1,2,4-trichlorobenzene | 13.50 | 180 | 295407  | 77.874  | ug/L 99  |
| 70) 1,2,3-Trichlorobenzene | 13.98 | 180 | 210915  | 53.216  | ug/L 97  |

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

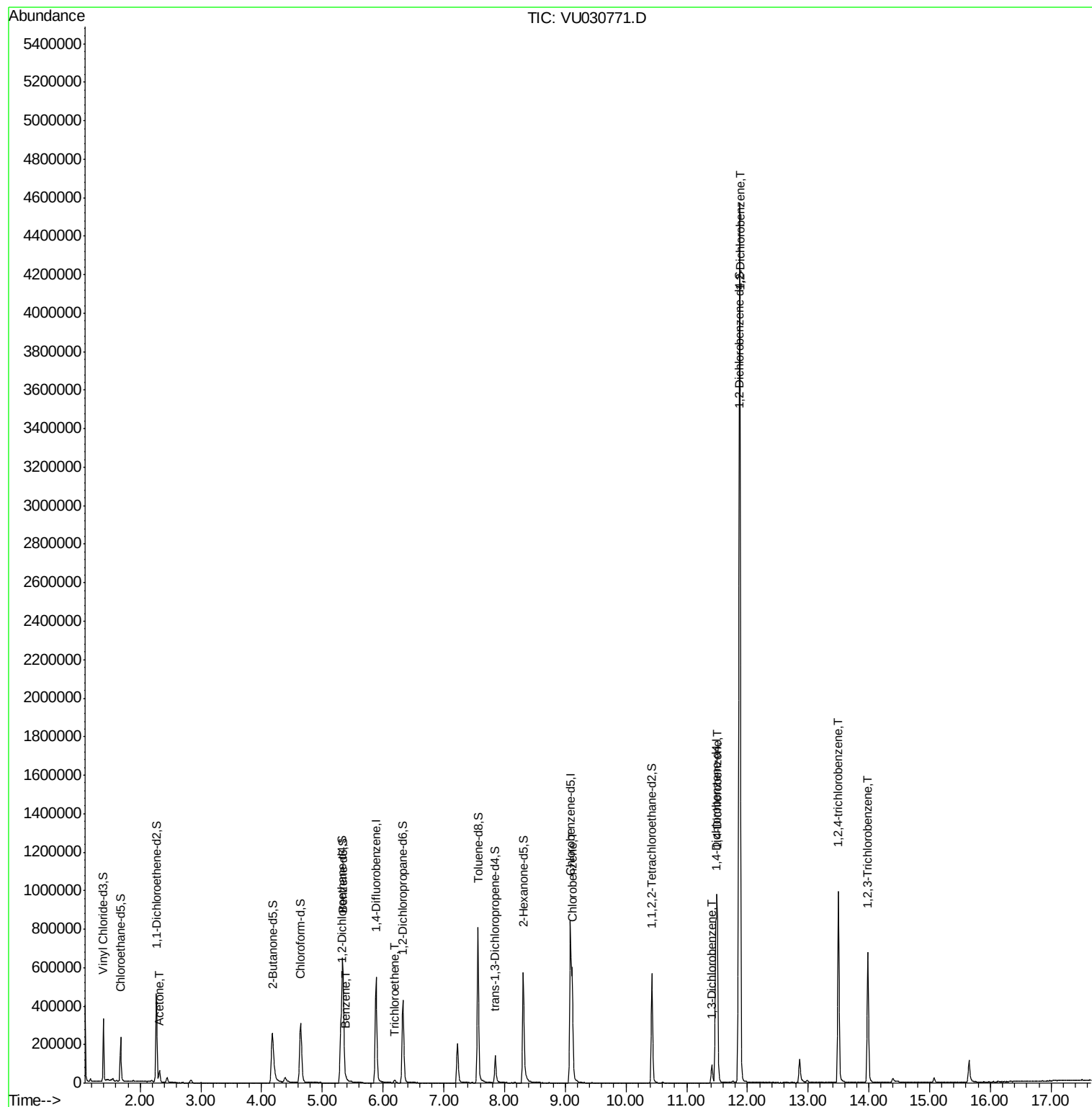
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040619\  
Data File : VU030771.D  
Acq On : 06 Apr 2019 02:57  
Operator : JC/SP  
Sample : K2269-01  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 27 Sample Multiplier: 1

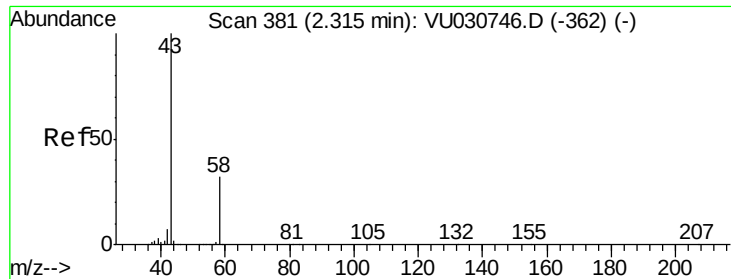
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0BR2

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Quant Time: Apr 06 05:24:43 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Apr 06 02:16:29 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 19.843 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU030771.D

Acq: 06 Apr 2019 02:57

Instrument :

MSVOA\_U

ClientSampled :

C0BR2

Tot Ion: 43 Resp: 63826

Ion Ratio Lower Upper

43 100

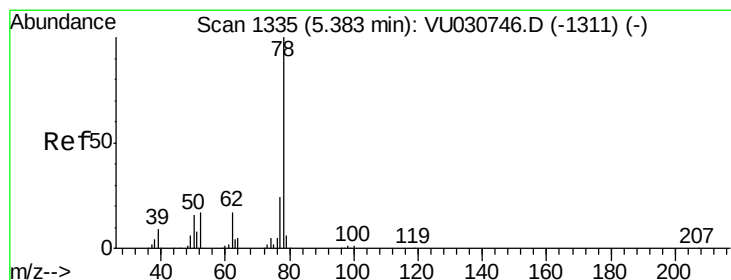
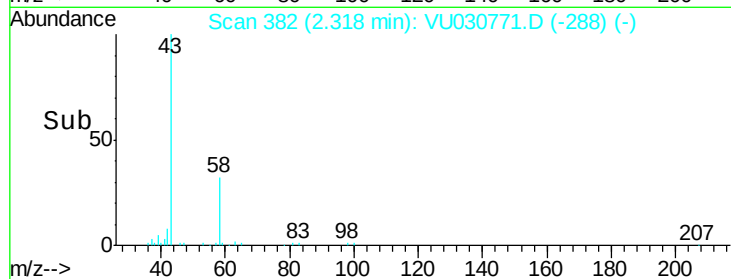
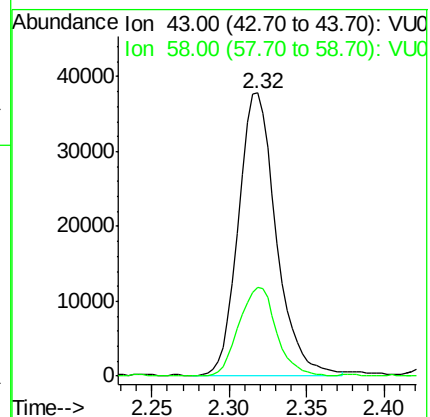
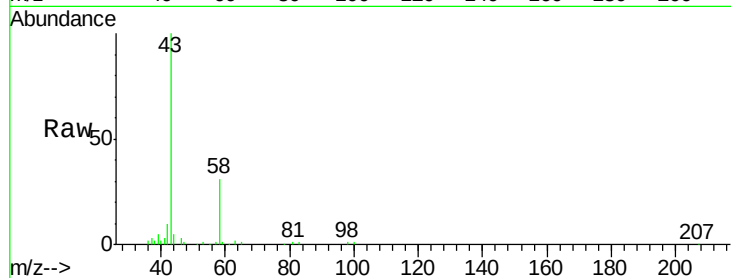
58 31.5 0.0 64.0

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#33

Benzene

Concen: 1.220 ug/L

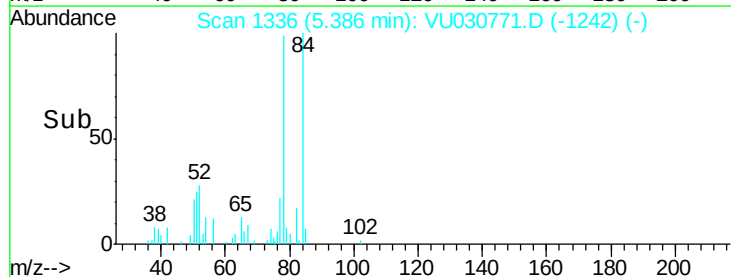
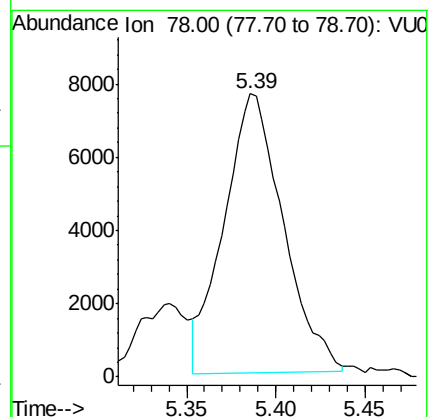
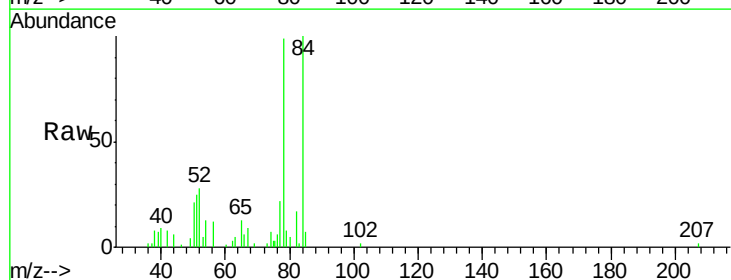
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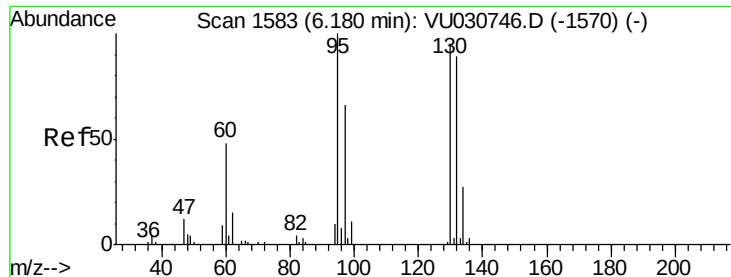
Delta R.T. 0.00 min

Lab File: VU030771.D

Acq: 06 Apr 2019 02:57

Tgt Ion: 78 Resp: 17586





#34

Trichloroethene

Concen: 1.371 ug/L

RT: 6.19 min Scan# 1585

Delta R.T. 0.01 min

Lab File: VU030771.D

Acq: 06 Apr 2019 02:57

Instrument :

MSVOA\_U

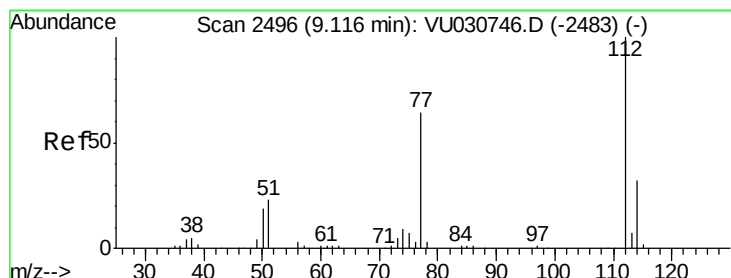
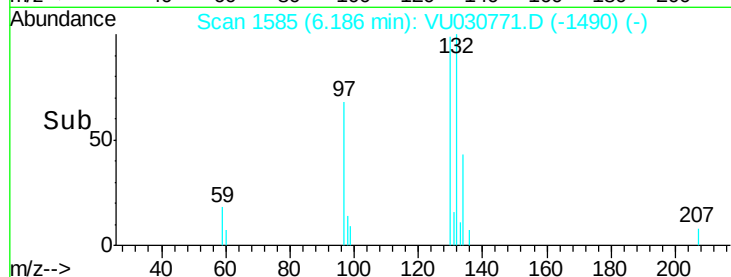
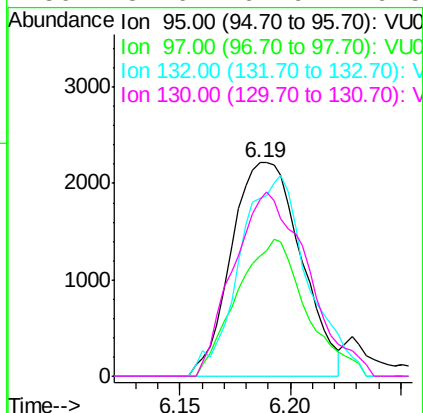
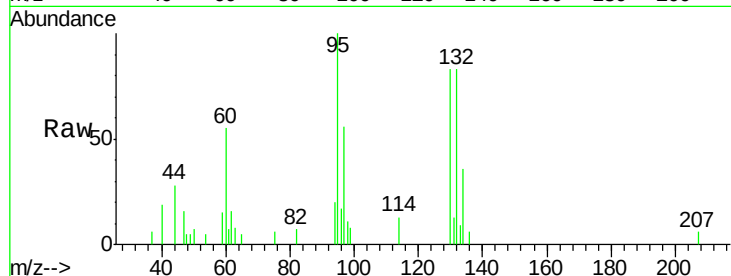
ClientSampleId :

C0BR2

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 95    | Resp: | 4850  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 56.3  | 44.5  | 82.7  |
| 132      | 83.1  | 61.5  | 114.1 |
| 130      | 82.6  | 64.9  | 120.5 |

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#51

Chlorobenzene

Concen: 32.187 ug/L

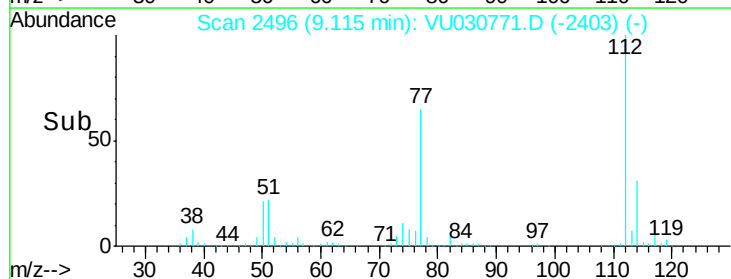
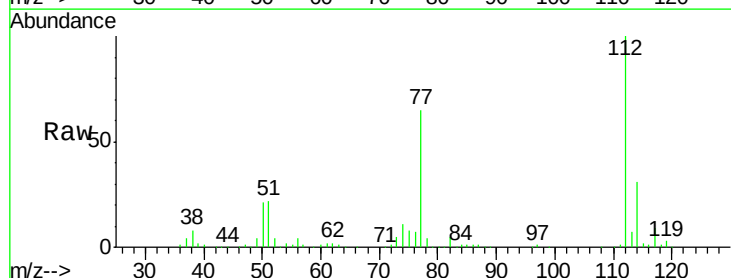
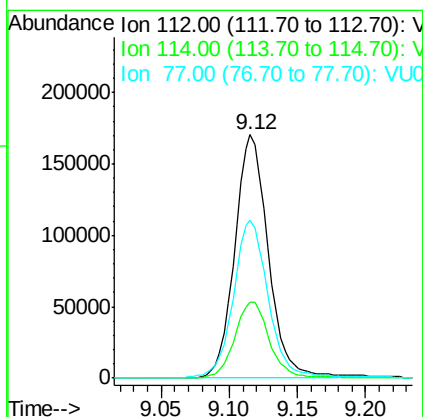
RT: 9.12 min Scan# 2496

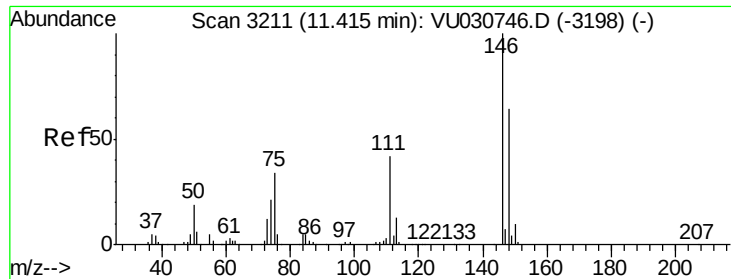
Delta R.T. -0.00 min

Lab File: VU030771.D

Acq: 06 Apr 2019 02:57

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 290562 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 114      | 31.4  | 22.2  | 41.2   |
| 77       | 64.9  | 51.7  | 77.5   |





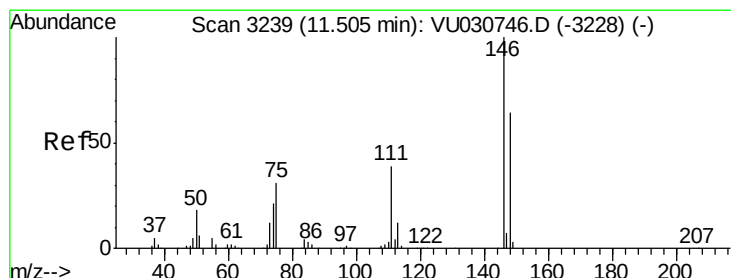
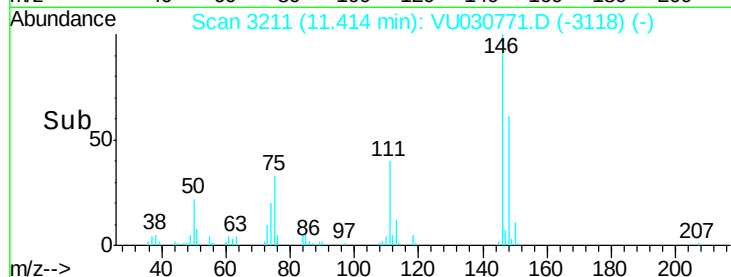
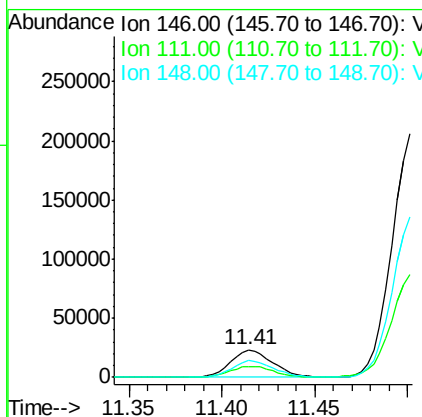
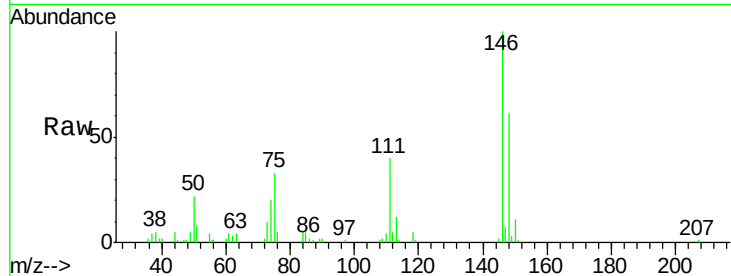
#62  
 1,3-Dichlorobenzene  
 Concen: 6.050 ug/L  
 RT: 11.41 min Scan# 3211  
 Delta R.T. -0.00 min  
 Lab File: VU030771.D  
 Acq: 06 Apr 2019 02:57

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 C0BR2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.1  | 30.9  | 57.5  |
| 148     | 60.6  | 44.7  | 82.9  |

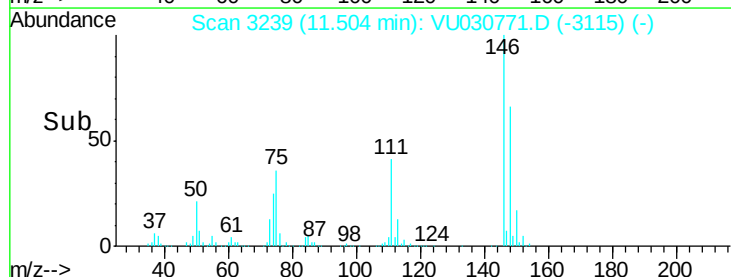
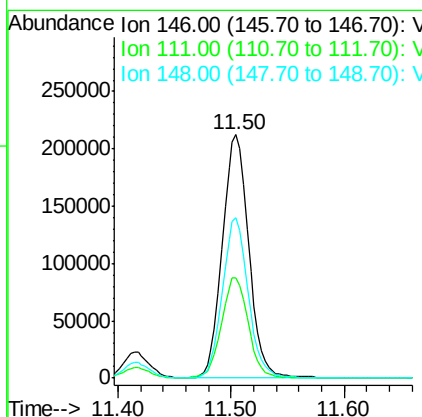
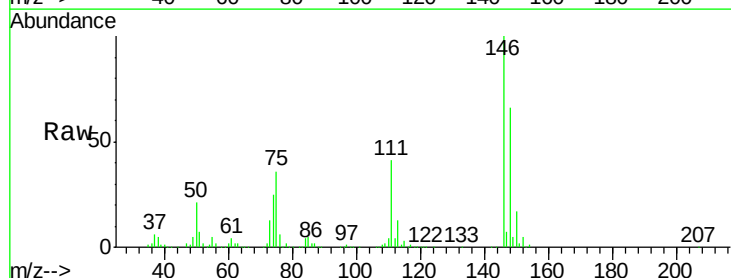
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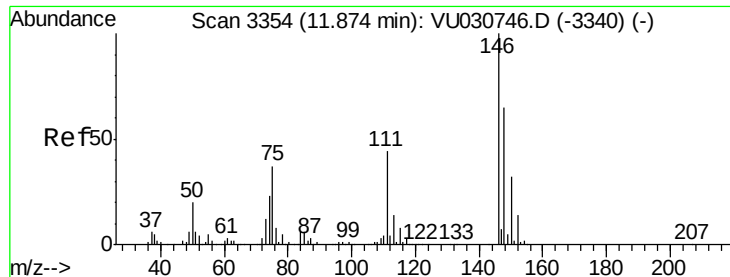
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#63  
 1,4-Dichlorobenzene  
 Concen: 55.452 ug/L  
 RT: 11.50 min Scan# 3239  
 Delta R.T. -0.00 min  
 Lab File: VU030771.D  
 Acq: 06 Apr 2019 02:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.2  | 27.7  | 51.5  |
| 148     | 66.0  | 45.4  | 84.4  |





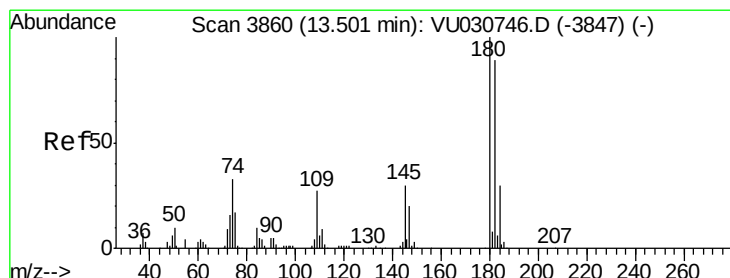
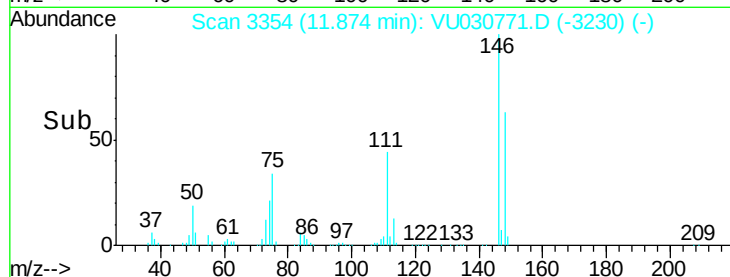
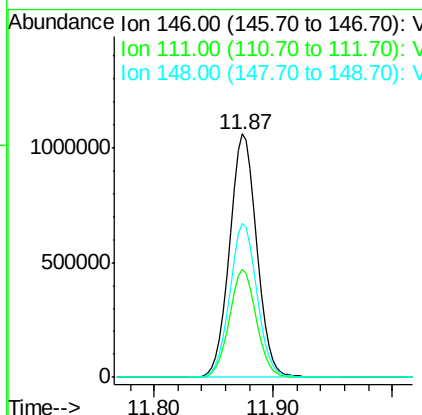
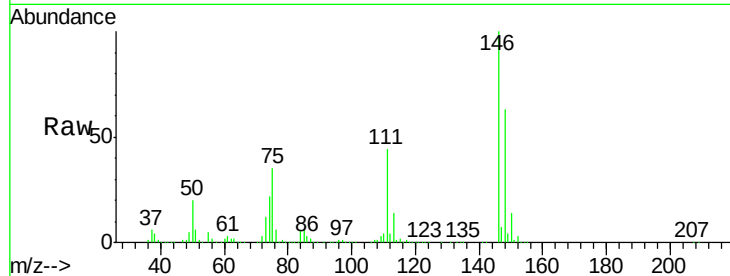
#65  
 1,2-Dichlorobenzene  
 Concen: 273.673 ug/L  
 RT: 11.87 min Scan# 3354  
 Delta R.T. -0.00 min  
 Lab File: VU030771.D  
 Acq: 06 Apr 2019 02:57

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0BR2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 44.3  | 34.9  | 52.3  |
| 148     | 63.2  | 50.4  | 75.6  |

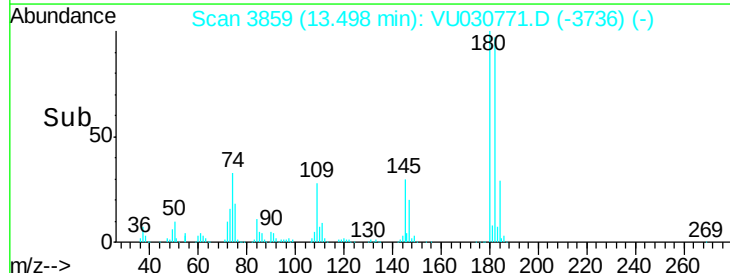
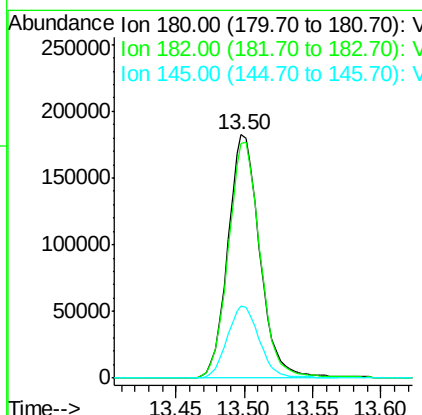
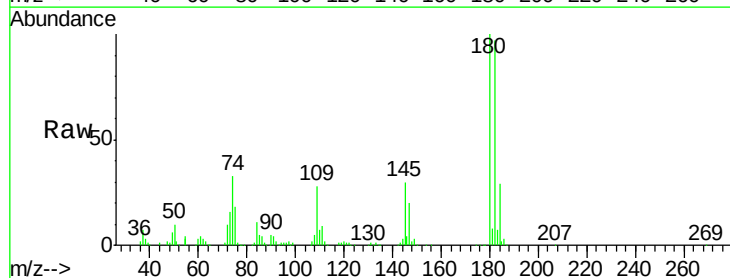
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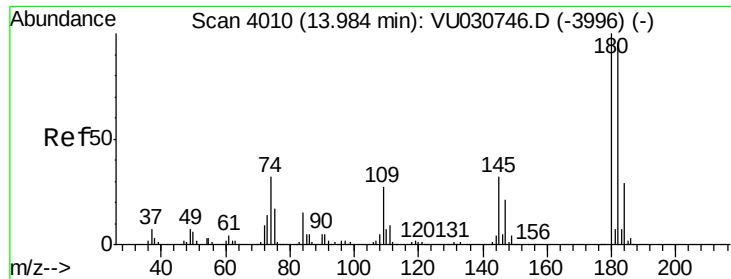
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#68  
 1,2,4-trichlorobenzene  
 Concen: 77.874 ug/L  
 RT: 13.50 min Scan# 3859  
 Delta R.T. -0.00 min  
 Lab File: VU030771.D  
 Acq: 06 Apr 2019 02:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.6  | 76.7  | 115.1 |
| 145     | 30.2  | 24.4  | 36.6  |





#70  
 1,2,3-Trichlorobenzene  
 Concen: 53.216 ug/L  
 RT: 13.98 min Scan# 4010  
 Delta R.T. -0.00 min  
 Lab File: VU030771.D  
 Acq: 06 Apr 2019 02:57

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0BR2

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 210915 |       |       |
| 182     | 94.0  |        | 78.1  | 117.1 |
| 145     | 33.2  |        | 26.6  | 40.0  |

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