

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081018\  
 Data File : VU026044.D  
 Acq On : 10 Aug 2018 15:31  
 Operator : MD/SY  
 Sample : J4401-19  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A4ZG1

Quant Time: Aug 11 01:56:46 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080918WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Aug 11 00:58:27 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 281439   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 267707   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 129709   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

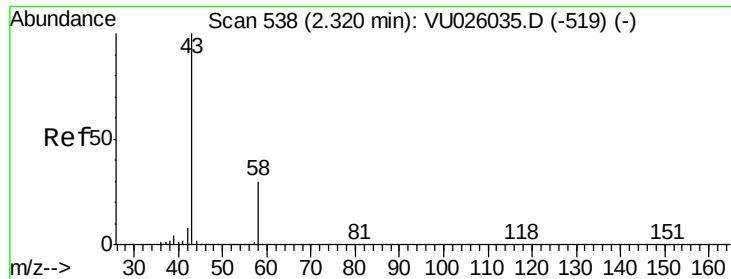
|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 69595    | 33.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 67.66%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 67137    | 41.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 82.32%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 113613   | 29.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 58.12%# |
| 21) 2-Butanone-d5              | 4.18    | 46    | 172455   | 100.58   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 100.58% |
| 24) Chloroform-d               | 4.65    | 84    | 199611   | 45.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.52%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 142026   | 48.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.40%  |
| 32) Benzene-d6                 | 5.35    | 84    | 376995   | 45.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.70%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 129740   | 48.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 96.46%  |
| 41) Toluene-d8                 | 7.57    | 98    | 337582   | 42.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 84.90%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 60781    | 44.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.70%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 122952   | 100.64   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 100.64% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 192702   | 48.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 97.98%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 153651   | 48.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.10%  |

## Target Compounds

| Target Compounds           | R.T.  | QIon | Response | Conc   | Units | Ovalue |
|----------------------------|-------|------|----------|--------|-------|--------|
| 13) Acetone                | 2.32  | 43   | 106122   | 99.63  | ug/L  | 99     |
| 22) 2-Butanone             | 4.27  | 43   | 52105    | 33.81  | ug/L  | 100    |
| 27) 1,2-Dichloroethane     | 5.41  | 62   | 7499     | 2.48   | ug/L  | 99     |
| 42) Toluene                | 7.64  | 91   | 83660    | 10.34  | ug/L  | 99     |
| 51) Chlorobenzene          | 9.12  | 112  | 708028   | 129.75 | ug/L  | 99     |
| 62) 1,3-Dichlorobenzene    | 11.42 | 146  | 75989    | 18.82  | ug/L  | 97     |
| 63) 1,4-Dichlorobenzene    | 11.51 | 146  | 496057   | 117.18 | ug/L  | 99     |
| 65) 1,2-Dichlorobenzene    | 11.88 | 146  | 594217   | 138.25 | ug/L  | 98     |
| 68) 1,2,4-trichlorobenzene | 13.51 | 180  | 302578   | 118.56 | ug/L  | 99     |
| 70) 1,2,3-Trichlorobenzene | 13.99 | 180  | 78738    | 28.70  | ug/L  | 99     |

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





#13

Acetone

Concen: 99.63 ug/L

RT: 2.32 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU026044.D

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Instrument :

MSVOA\_U

ClientSampleId :

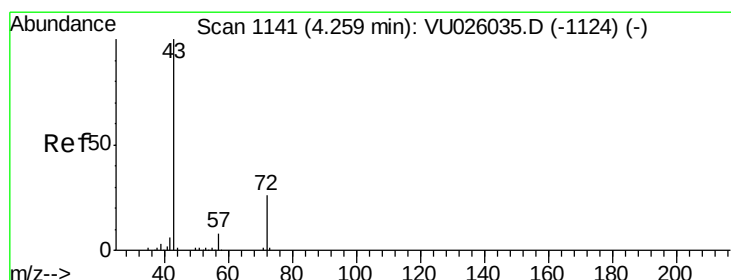
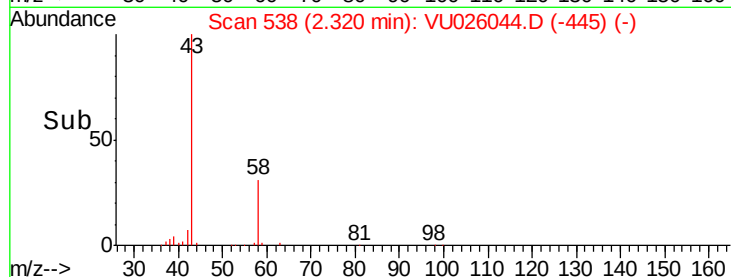
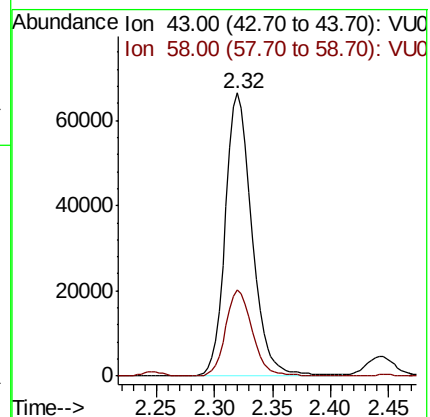
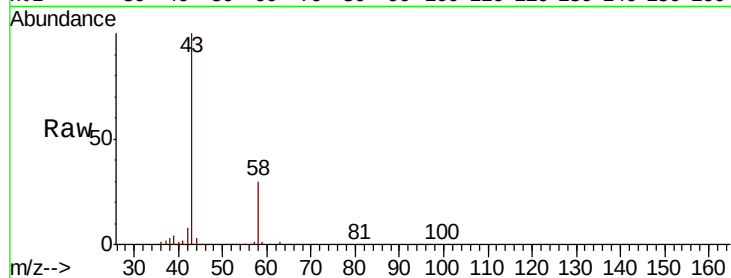
A4ZG1

Tot Ion: 43 Resp: 106122

Ion Ratio Lower Upper

43 100

58 30.4 0.0 61.8



#22

2-Butanone

Concen: 33.81 ug/L

RT: 4.27 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VU026044.D

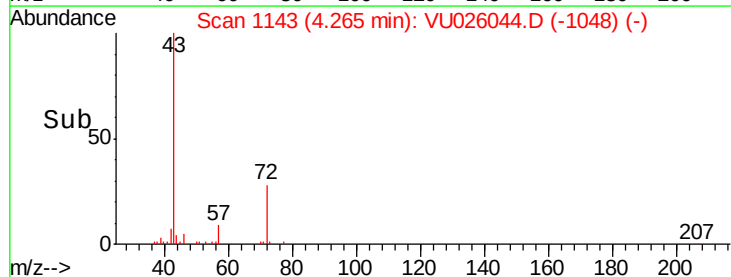
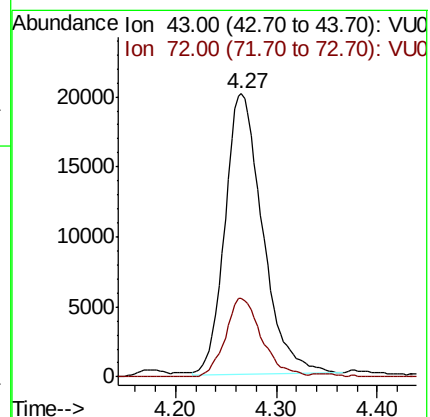
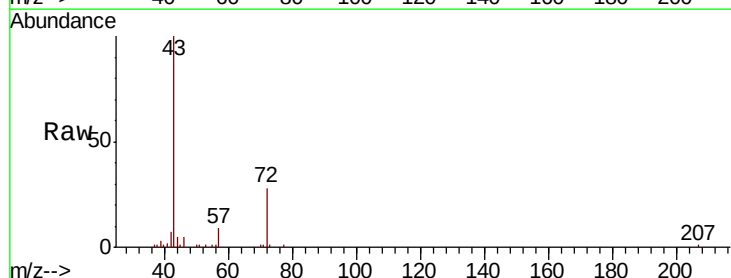
Acq: 10 Aug 2018 15:31

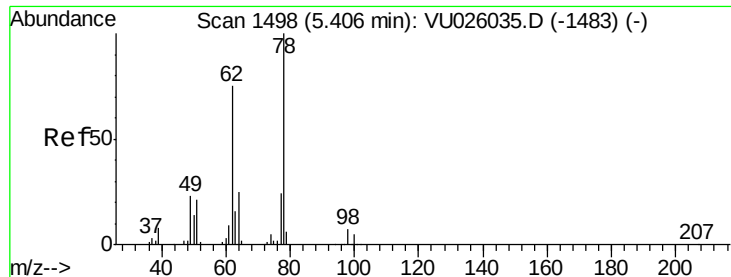
Tgt Ion: 43 Resp: 52105

Ion Ratio Lower Upper

43 100

72 27.0 13.5 40.5

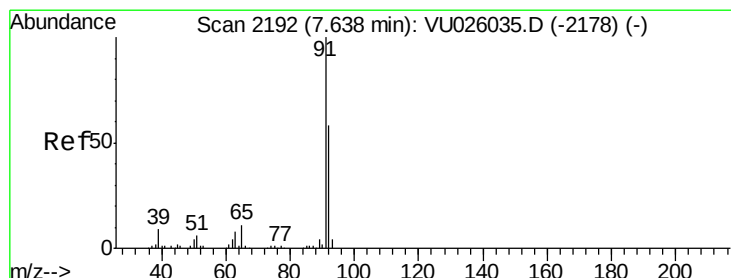
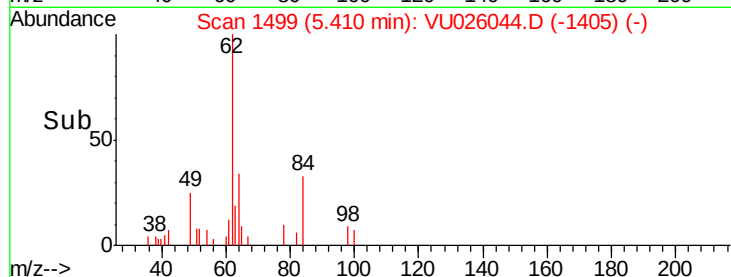
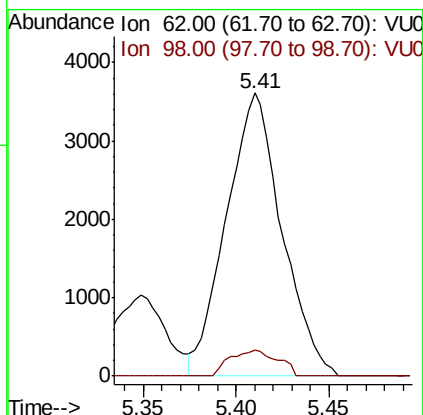
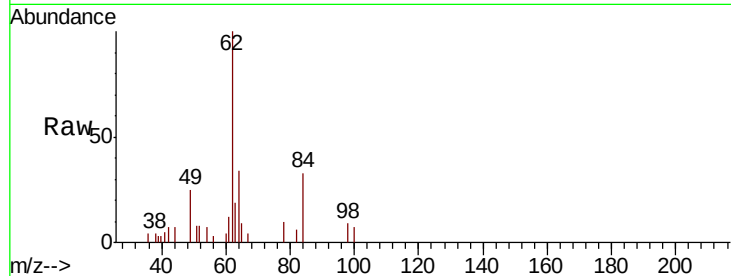




#27  
 1,2-Dichloroethane  
 Concen: 2.48 ug/L  
 RT: 5.41 min Scan# 1499  
 Delta R.T. 0.00 min  
 Lab File: VU026044.D  
 Acq: 10 Aug 2018 15:31

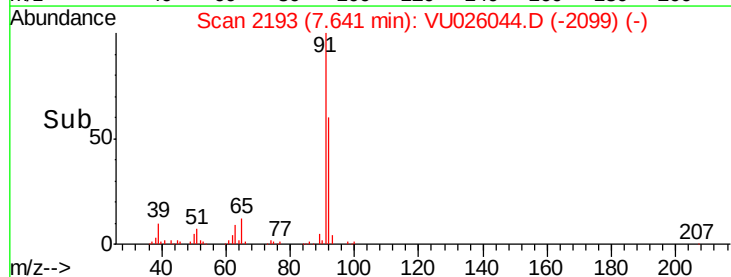
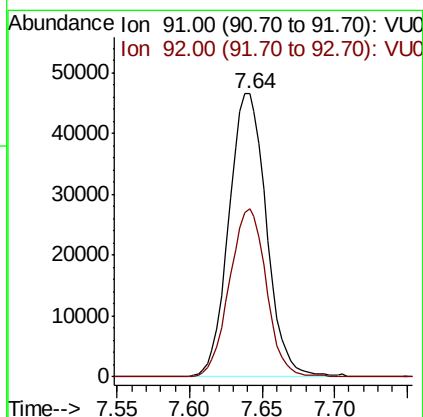
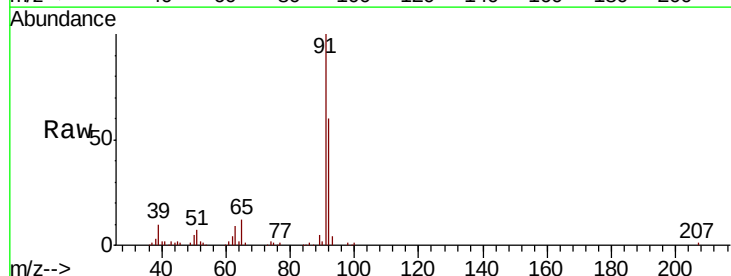
Instrument :  
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 ClientSampleId :  
 A4ZG1

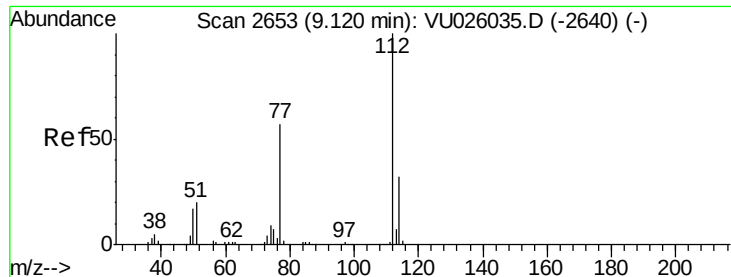
Tot Ion: 62 Resp: 7499  
 Ion Ratio Lower Upper  
 62 100  
 98 9.0 7.0 10.4



#42  
 Toluene  
 Concen: 10.34 ug/L  
 RT: 7.64 min Scan# 2193  
 Delta R.T. 0.00 min  
 Lab File: VU026044.D  
 Acq: 10 Aug 2018 15:31

Tgt Ion: 91 Resp: 83660  
 Ion Ratio Lower Upper  
 91 100  
 92 59.6 41.0 76.2

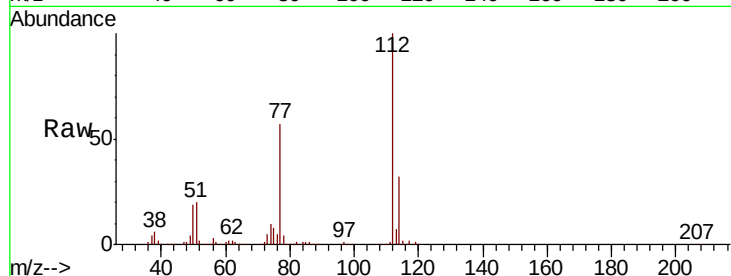




#51  
Chlorobenzene  
Concen: 129.75 ug/L  
RT: 9.12 min Scan# 2653  
Delta R.T. 0.00 min  
Lab File: VU026044.D  
Acq: 10 Aug 2018 15:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
A4ZG1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 31.8  | 22.7  | 42.3  |
| 77      | 57.1  | 45.2  | 67.8  |

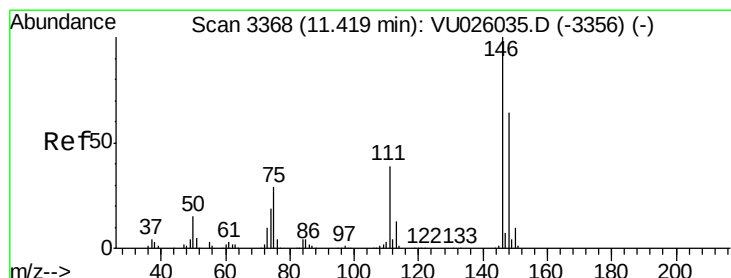
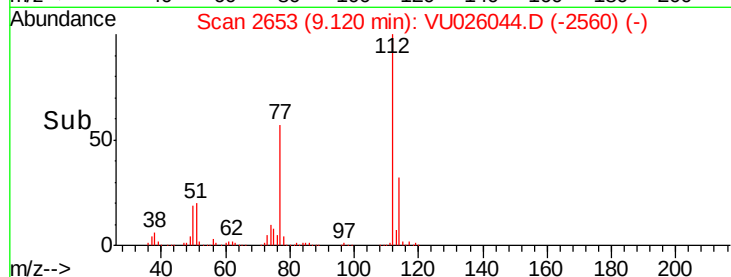
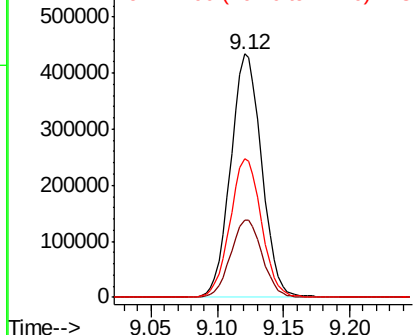


Abundance

Ion 112.00 (111.70 to 112.70): V

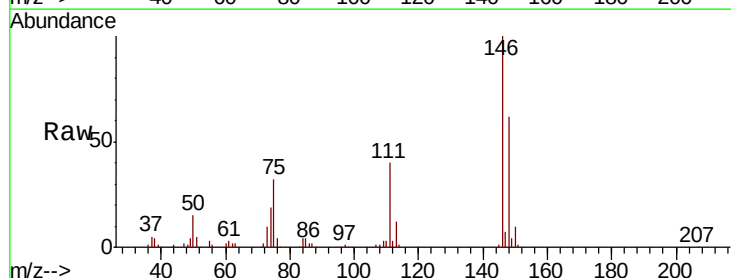
Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#62  
1,3-Dichlorobenzene  
Concen: 18.82 ug/L  
RT: 11.42 min Scan# 3368  
Delta R.T. 0.00 min  
Lab File: VU026044.D  
Acq: 10 Aug 2018 15:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.6  | 27.9  | 51.9  |
| 148     | 62.2  | 46.0  | 85.4  |

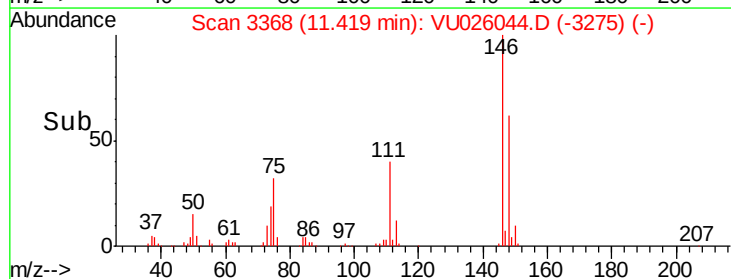
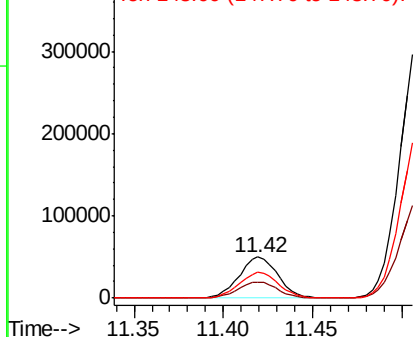


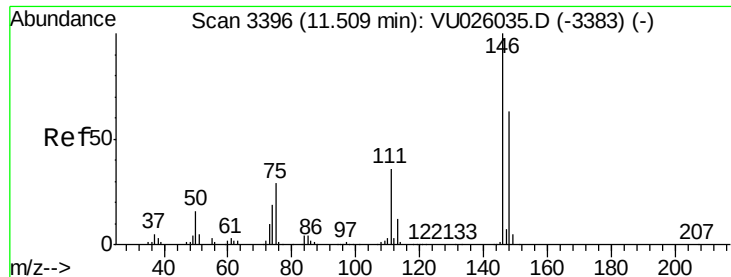
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

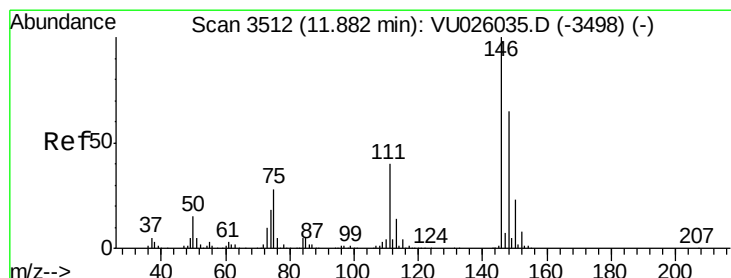
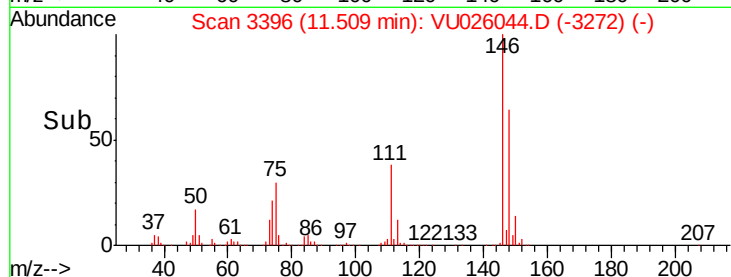
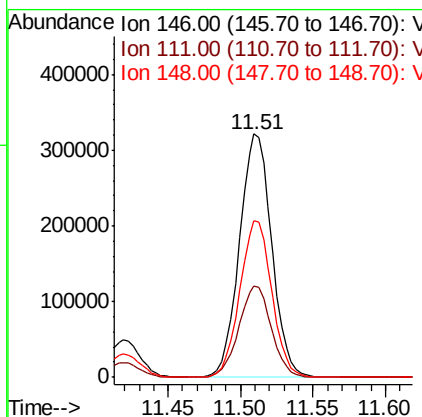
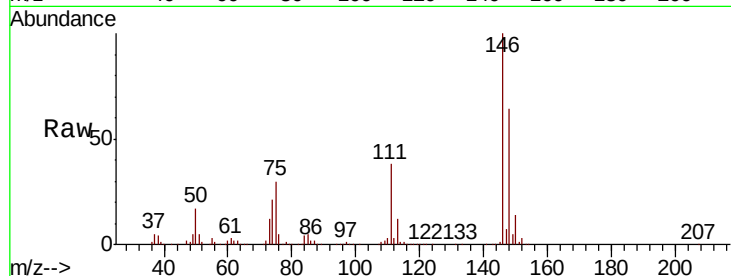




#63  
 1,4-Dichlorobenzene  
 Concen: 117.18 ug/L  
 RT: 11.51 min Scan# 3396  
 Delta R.T. 0.00 min  
 Lab File: VU026044.D  
 Acq: 10 Aug 2018 15:31

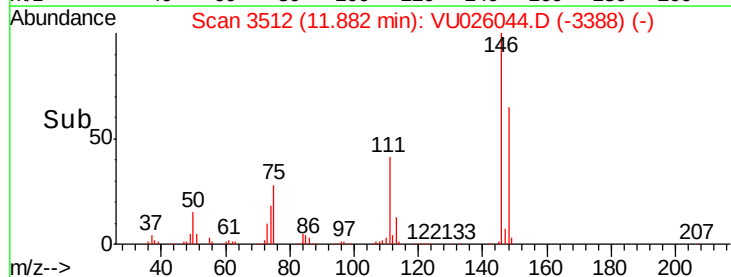
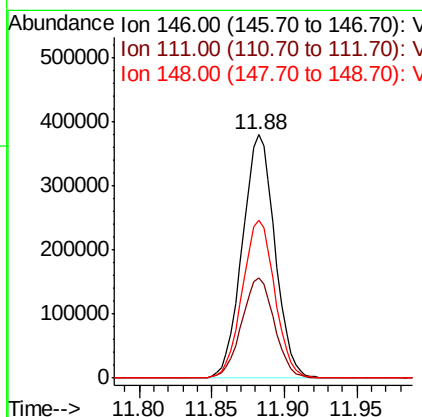
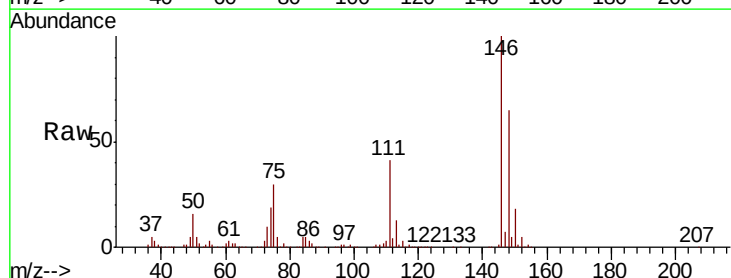
Instrument :  
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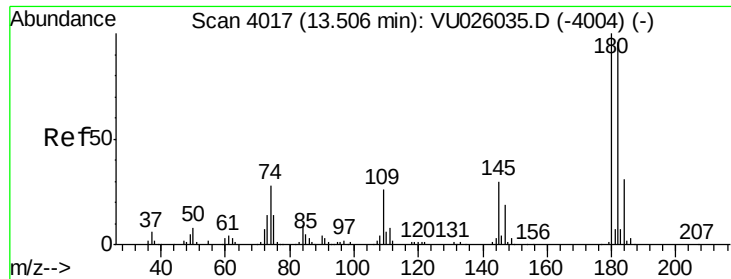
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.7  | 26.4  | 49.0  |
| 148     | 64.4  | 43.8  | 81.4  |



#65  
 1,2-Dichlorobenzene  
 Concen: 138.25 ug/L  
 RT: 11.88 min Scan# 3512  
 Delta R.T. 0.00 min  
 Lab File: VU026044.D  
 Acq: 10 Aug 2018 15:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.0  | 32.4  | 48.6  |
| 148     | 65.0  | 50.1  | 75.1  |

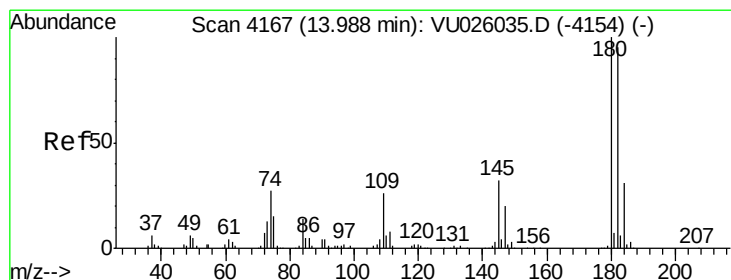
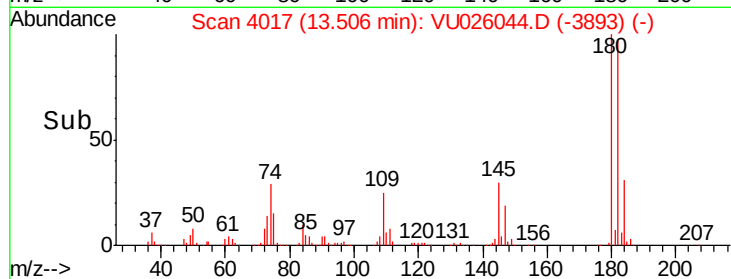
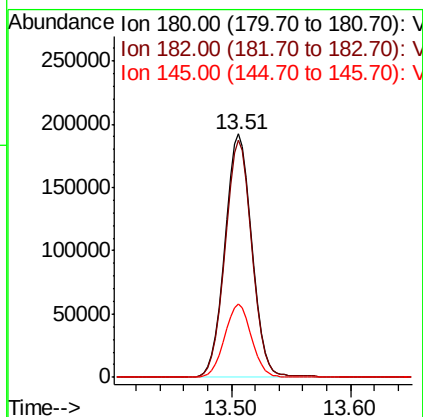
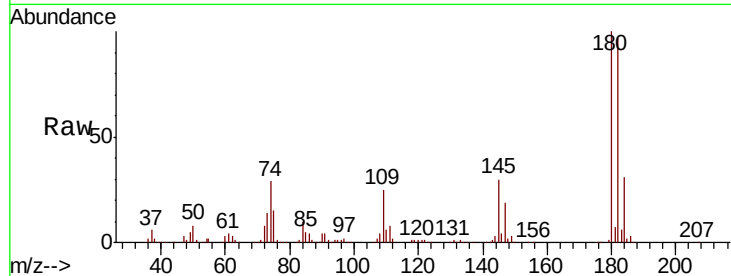




#68  
 1,2,4-trichlorobenzene  
 Concen: 118.56 ug/L  
 RT: 13.51 min Scan# 4017  
 Delta R.T. 0.00 min  
 Lab File: VU026044.D  
 Acq: 10 Aug 2018 15:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A4ZG1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.7  | 76.5  | 114.7 |
| 145     | 29.8  | 24.2  | 36.4  |



#70  
 1,2,3-Trichlorobenzene  
 Concen: 28.70 ug/L  
 RT: 13.99 min Scan# 4168  
 Delta R.T. 0.00 min  
 Lab File: VU026044.D  
 Acq: 10 Aug 2018 15:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.1  | 76.5  | 114.7 |
| 145     | 30.6  | 24.7  | 37.1  |

