

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071718\  
 Data File : VU025471.D  
 Acq On : 17 Jul 2018 21:20  
 Operator : MD/SY  
 Sample : J4024-01  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB1P0

Quant Time: Jul 18 07:03:37 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071718WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jul 18 06:47:36 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 338766   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 304582   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 144633   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 72917    | 45.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 91.28%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 67344    | 49.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 98.96%  |
| 11) 1,1-Dichloroethene-d2      | 2.28    | 63    | 127153   | 36.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 72.50%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 153822   | 90.49    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 90.49%  |
| 24) Chloroform-d               | 4.65    | 84    | 190785   | 46.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.08%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 135523   | 48.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.10%  |
| 32) Benzene-d6                 | 5.35    | 84    | 368485   | 50.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.12% |
| 36) 1,2-Dichloropropane-d6     | 6.34    | 67    | 122585   | 50.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 100.58% |
| 41) Toluene-d8                 | 7.57    | 98    | 344360   | 48.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.66%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 58582    | 46.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 92.34%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 112589   | 89.09    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 89.09%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 168479   | 46.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.10%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 143687   | 49.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.14%  |

## Target Compounds

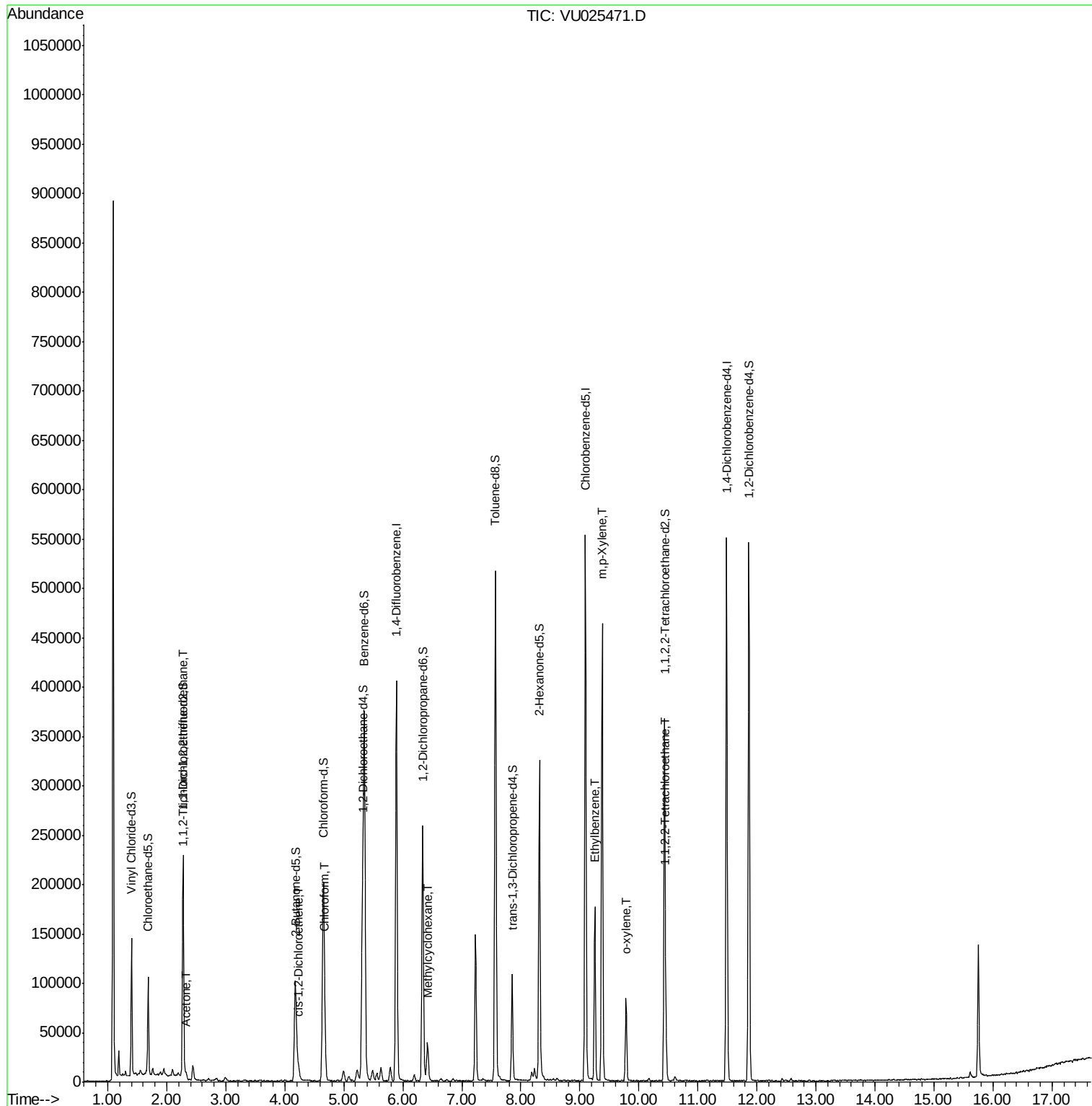
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Ovalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29  | 101  | 4143     | 2.09  | ug/L  | # 76   |
| 13) Acetone                    | 2.32  | 43   | 7567     | 5.10  | ug/L  | 97     |
| 20) cis-1,2-Dichloroethene     | 4.23  | 96   | 6257     | 2.35  | ug/L  | 93     |
| 25) Chloroform                 | 4.68  | 83   | 25489    | 5.58  | ug/L  | 95     |
| 35) Methylcyclohexane          | 6.42  | 83   | 16263    | 4.49  | ug/L  | 97     |
| 52) Ethylbenzene               | 9.25  | 91   | 121585   | 11.34 | ug/L  | 99     |
| 53) m,p-Xylene                 | 9.38  | 106  | 132180   | 32.15 | ug/L  | 98     |
| 54) o-xylene                   | 9.78  | 106  | 22203    | 5.35  | ug/L  | 94     |
| 58) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 16090    | 3.97  | ug/L  | 94     |

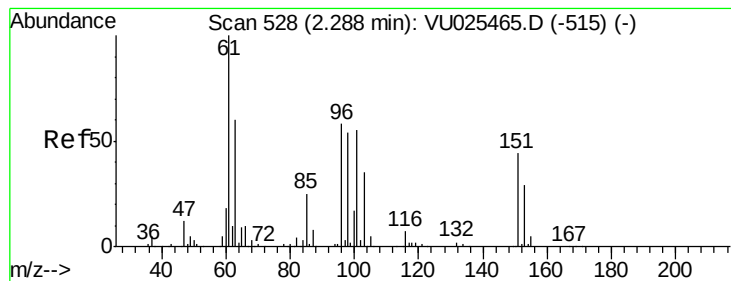
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : J4024-01  
Misc : 5.0mL/MSVOA U/WATER  
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Instrument :  
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ClientSampleId :  
DB1P0

Quant Time: Jul 18 07:03:37 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071718WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Jul 18 06:47:36 2018  
Response via : Initial Calibration





#10

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

Concen: 2.09 ug/L

RT: 2.29 min Scan# 529

Delta R.T. 0.00 min

Lab File: VU025471.D

Acq: 17 Jul 2018 21:20

Instrument :

MSVOA\_U

ClientSampleId :

DB1P0

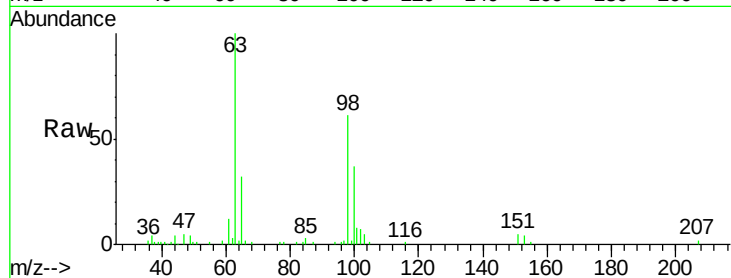
Tot Ion:101 Resp: 4143

Ion Ratio Lower Upper

101 100

85 31.2 35.4 53.2#

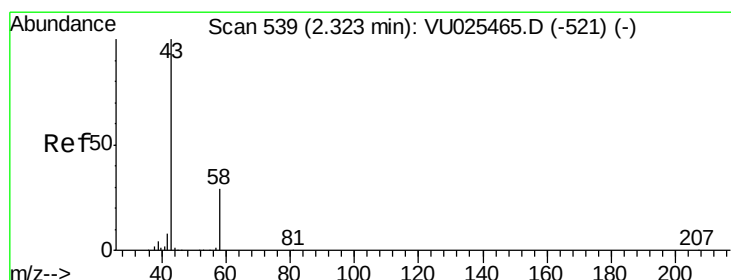
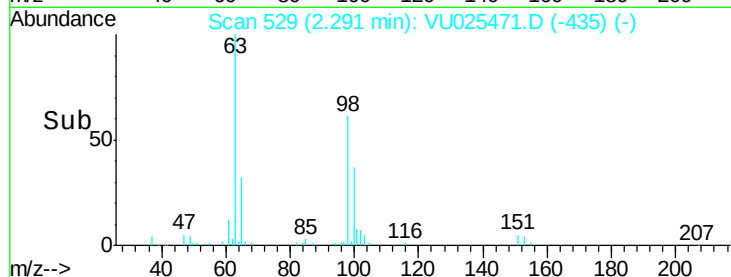
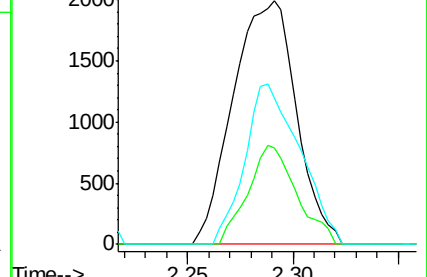
151 57.3 65.0 97.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 5.10 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025471.D

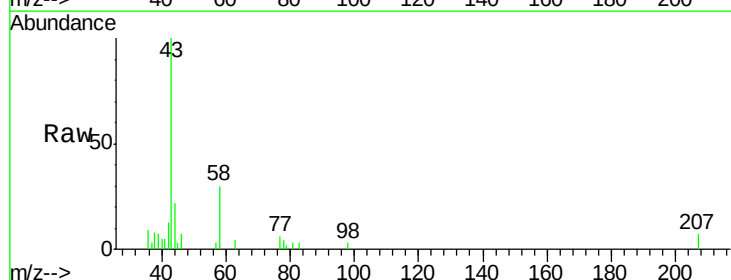
Acq: 17 Jul 2018 21:20

Tgt Ion: 43 Resp: 7567

Ion Ratio Lower Upper

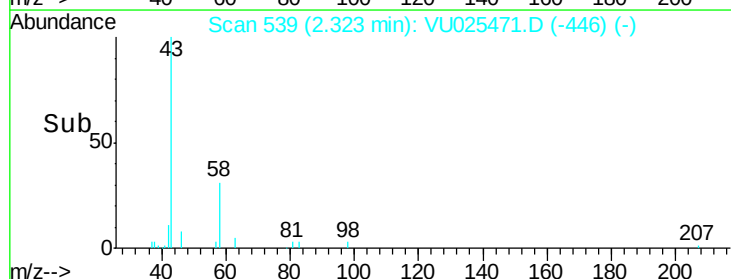
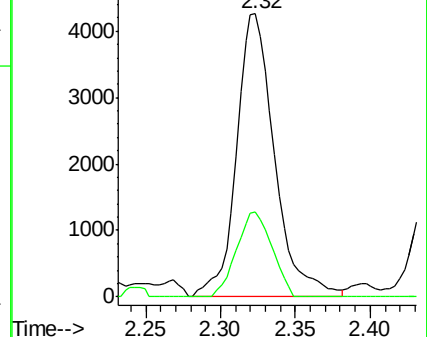
43 100

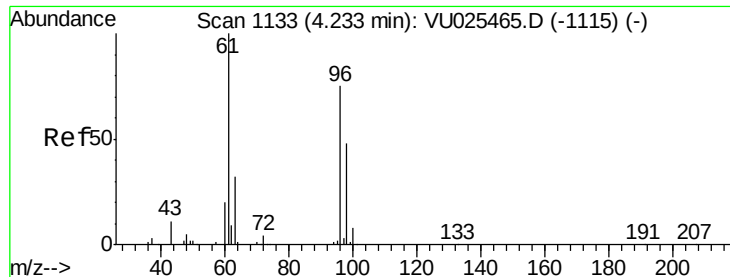
58 27.8 0.0 59.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

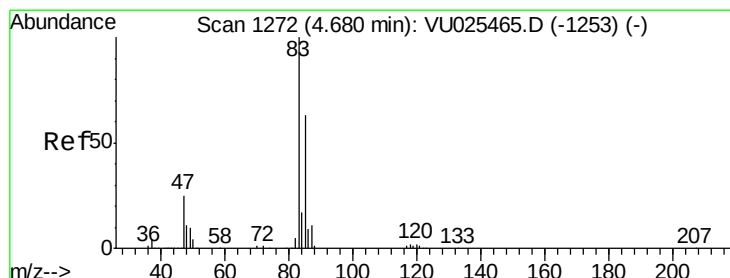
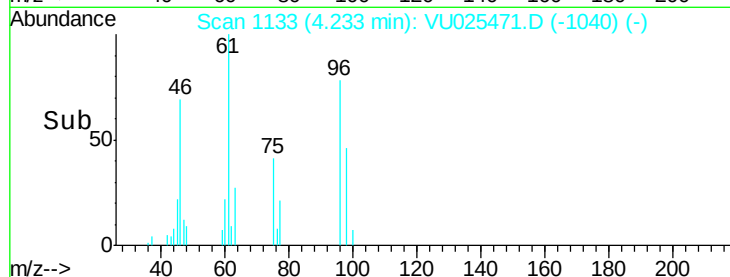
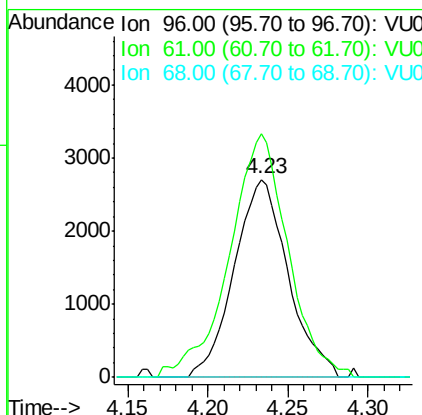
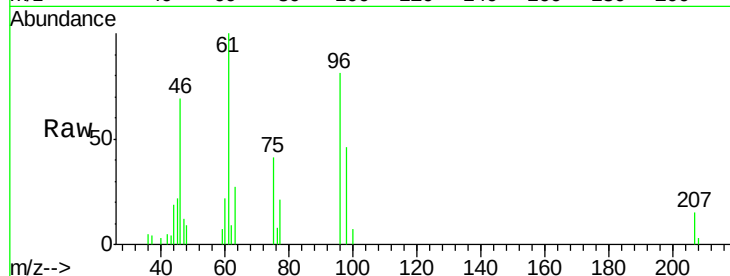




#20  
 cis-1,2-Dichloroethene  
 Concen: 2.35 ug/L  
 RT: 4.23 min Scan# 1133  
 Delta R.T. 0.00 min  
 Lab File: VU025471.D  
 Acq: 17 Jul 2018 21:20

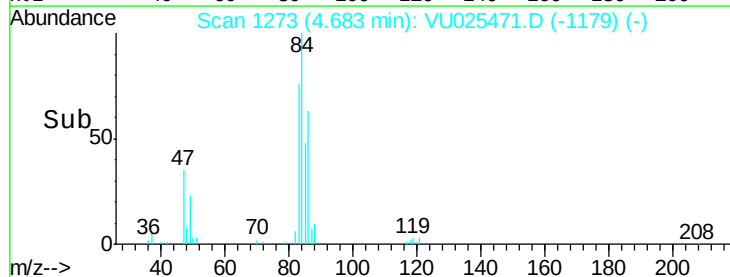
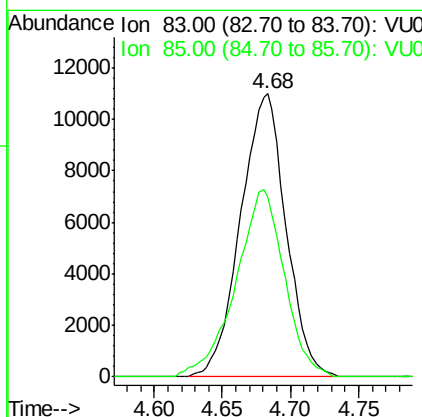
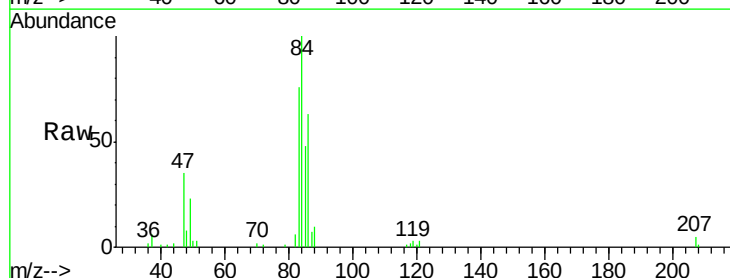
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB1P0

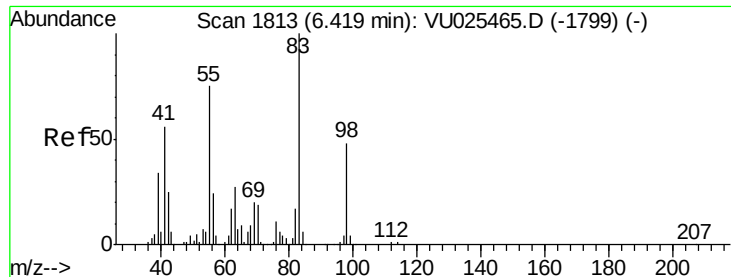
Tot Ion: 96 Resp: 6257  
 Ion Ratio Lower Upper  
 96 100  
 61 123.0 91.7 170.3  
 68 0.0 0.0 0.0



#25  
 Chloroform  
 Concen: 5.58 ug/L  
 RT: 4.68 min Scan# 1273  
 Delta R.T. 0.00 min  
 Lab File: VU025471.D  
 Acq: 17 Jul 2018 21:20

Tgt Ion: 83 Resp: 25489  
 Ion Ratio Lower Upper  
 83 100  
 85 63.3 47.2 87.6

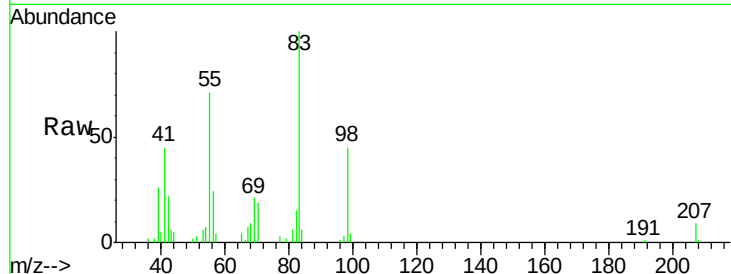




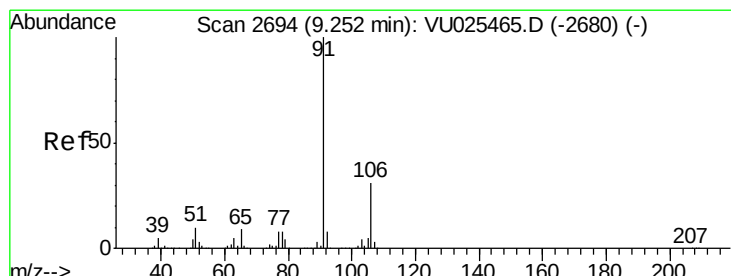
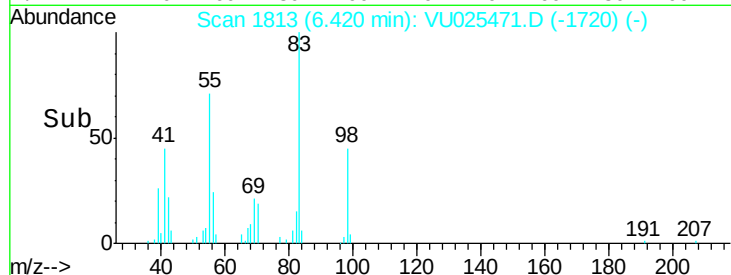
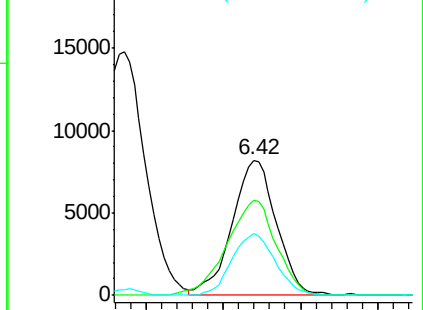
#35  
Methylvlcyclohexane  
Concen: 4.49 ug/L  
RT: 6.42 min Scan# 1813  
Delta R.T. 0.00 min  
Lab File: VU025471.D  
Acq: 17 Jul 2018 21:20

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB1P0

Tot Ion: 83 Resp: 16263  
Ion Ratio Lower Upper  
83 100  
55 78.5 61.8 92.8  
98 44.7 38.7 58.1

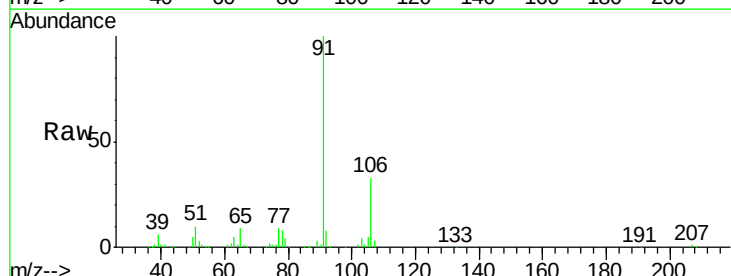


Abundance Ion 83.00 (82.70 to 83.70): VU0  
Ion 55.00 (54.70 to 55.70): VU0  
Ion 98.00 (97.70 to 98.70): VU0

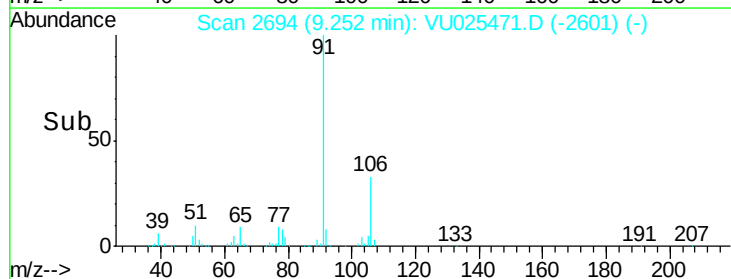
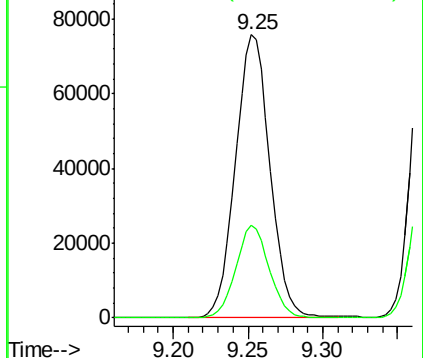


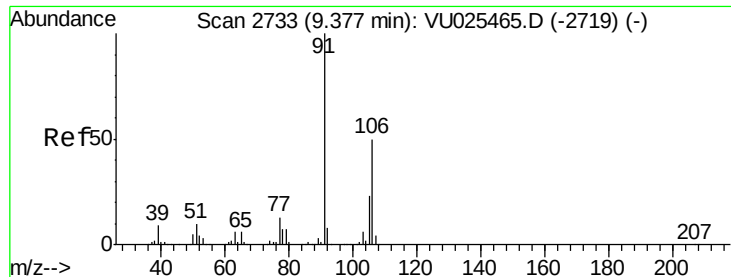
#52  
Ethylbenzene  
Concen: 11.34 ug/L  
RT: 9.25 min Scan# 2694  
Delta R.T. 0.00 min  
Lab File: VU025471.D  
Acq: 17 Jul 2018 21:20

Tgt Ion: 91 Resp: 121585  
Ion Ratio Lower Upper  
91 100  
106 32.5 22.4 41.6



Abundance Ion 91.00 (90.70 to 91.70): VU0  
Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 32.15 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU025471.D

Acq: 17 Jul 2018 21:20

Instrument :

MSVOA\_U

ClientSampleId :

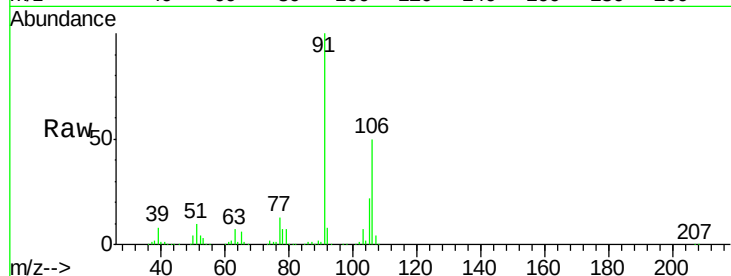
DB1P0

Tot Ion:106 Resp: 132180

Ion Ratio Lower Upper

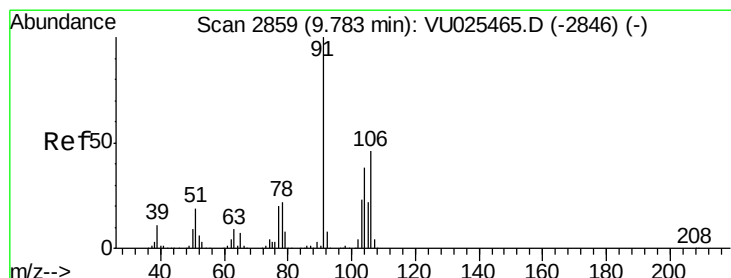
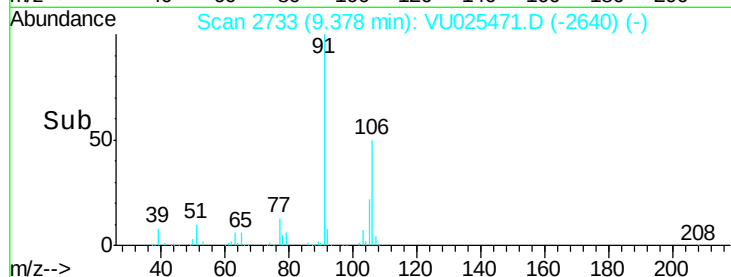
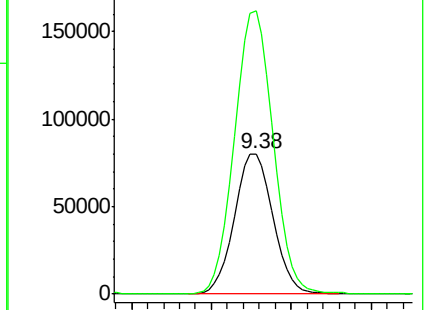
106 100

91 201.3 138.6 257.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 5.35 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VU025471.D

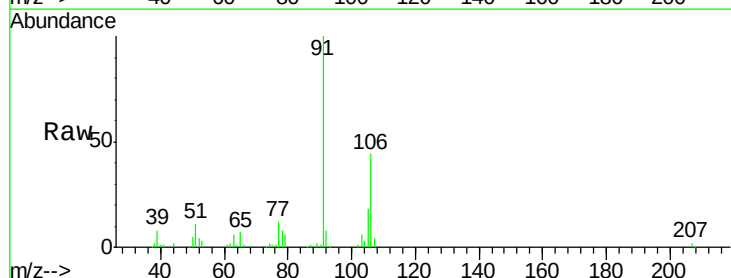
Acq: 17 Jul 2018 21:20

Tgt Ion:106 Resp: 22203

Ion Ratio Lower Upper

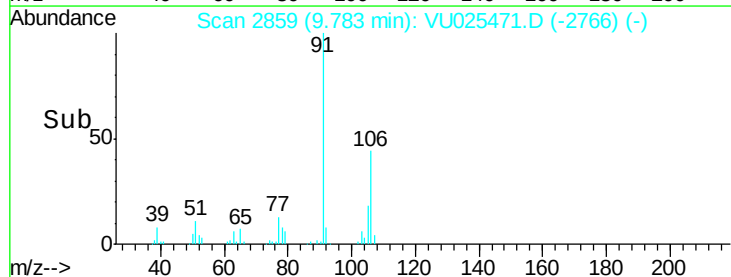
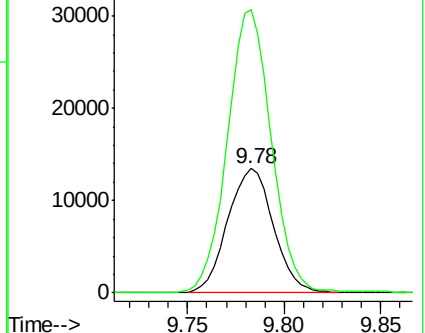
106 100

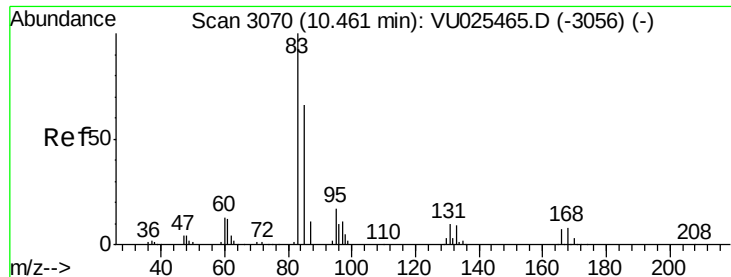
91 228.0 152.8 283.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

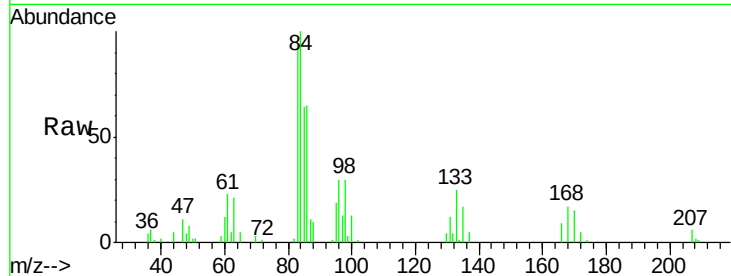




#58  
 1,1,2,2-Tetrachloroethane  
 Concen: 3.97 ug/L  
 RT: 10.46 min Scan# 3069  
 Delta R.T. -0.00 min  
 Lab File: VU025471.D  
 Acq: 17 Jul 2018 21:20

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB1P0

Tot Ion: 83 Resp: 16090  
 Ion Ratio Lower Upper  
 83 100  
 85 68.9 44.9 83.5  
 131 13.1 8.9 13.3



Abundance Ion 83.00 (82.70 to 83.70): VU0  
 Ion 85.00 (84.70 to 85.70): VU0  
 Ion 131.00 (130.70 to 131.70): V

