

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071719\  
 Data File : VU033283.D  
 Acq On : 17 Jul 2019 12:02  
 Operator : JC/SP  
 Sample : K3772-21  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A52L0

Quant Time: Jul 18 08:39:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR071619WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Jul 18 08:01:21 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 126203   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 131504   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 57067    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 53065    | 4.17     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 83.40%  |
| 7) Chloroethane-d5             | 1.67   | 69    | 46863    | 4.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 88.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 63    | 96421    | 3.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 78.40%  |
| 20) 2-Butanone-d5              | 4.17   | 46    | 93533    | 39.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 78.10%  |
| 24) Chloroform-d               | 4.62   | 84    | 77428    | 4.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 82.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.29   | 65    | 46815    | 4.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.40%  |
| 32) Benzene-d6                 | 5.32   | 84    | 171599   | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.31   | 67    | 56319    | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 96.60%  |
| 41) Toluene-d8                 | 7.55   | 98    | 145793   | 4.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 84.00%  |
| 43) trans-1,3-Dichloropropene- | 7.83   | 79    | 21504    | 4.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 92.20%  |
| 46) 2-Hexanone-d5              | 8.30   | 63    | 81675    | 42.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 85.16%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.42  | 84    | 44731    | 4.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 92.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85  | 152   | 56250    | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 101.20% |

## Target Compounds

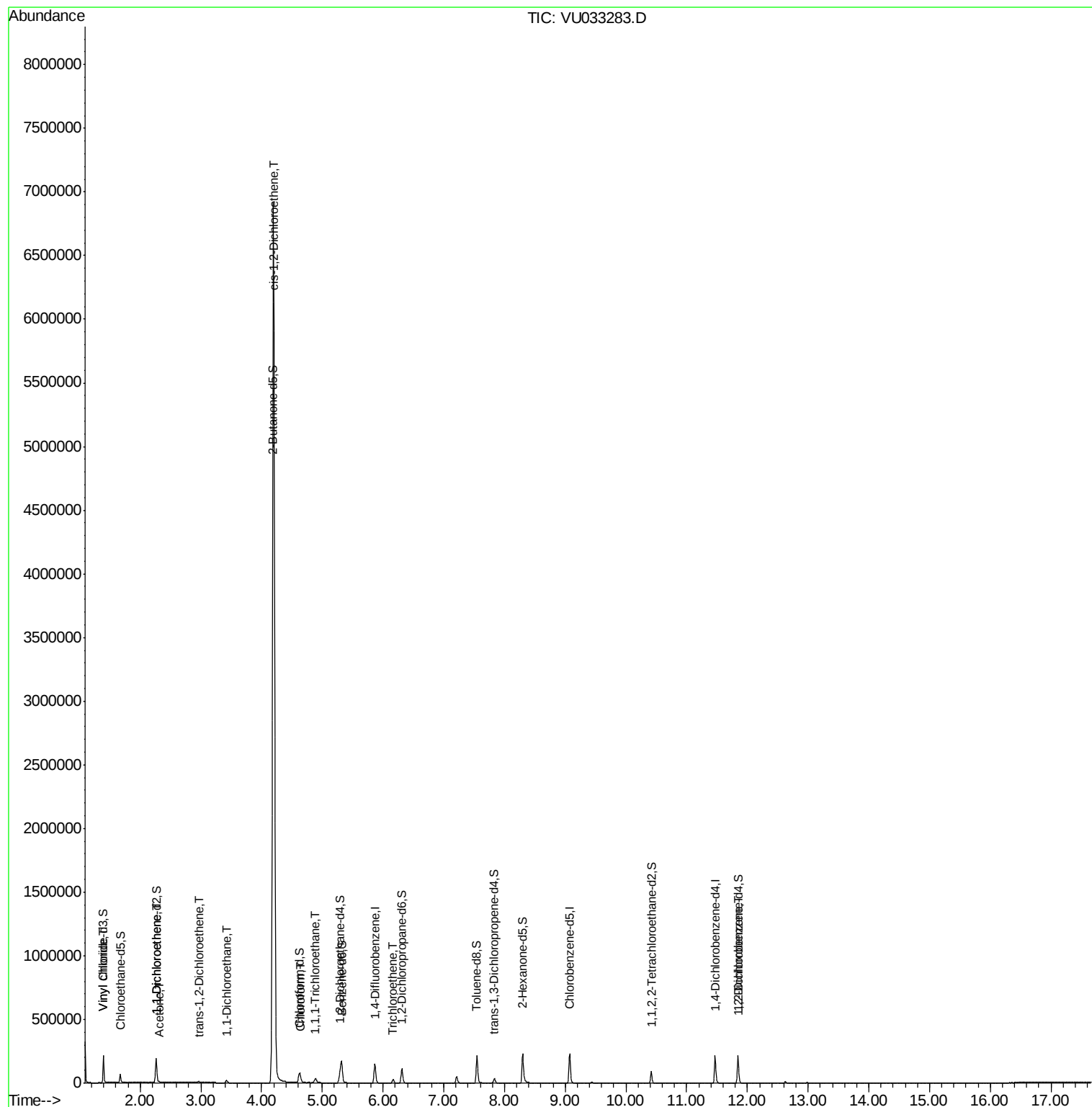
|                              |       |     |         |         | Ovalue    |
|------------------------------|-------|-----|---------|---------|-----------|
| 5) Vinyl chloride            | 1.40  | 62  | 94615   | 6.964   | ug/L 100  |
| 12) 1,1-Dichloroethene       | 2.27  | 96  | 19771   | 1.907   | ug/L # 37 |
| 13) Acetone                  | 2.31  | 43  | 8451    | 4.030   | ug/L 87   |
| 18) trans-1,2-Dichloroethene | 2.96  | 96  | 3610    | 0.315   | ug/L 91   |
| 19) 1,1-Dichloroethane       | 3.42  | 63  | 21287   | 1.237   | ug/L 96   |
| 22) cis-1,2-Dichloroethene   | 4.20  | 96  | 3688877 | 381.102 | ug/L 92   |
| 25) Chloroform               | 4.65  | 83  | 11746   | 0.616   | ug/L 98   |
| 29) 1,1,1-Trichloroethane    | 4.89  | 97  | 24799   | 1.633   | ug/L 95   |
| 34) Trichloroethene          | 6.17  | 95  | 9718    | 0.986   | ug/L 97   |
| 65) 1,2-Dichlorobenzene      | 11.86 | 146 | 3017    | 0.178   | ug/L # 85 |

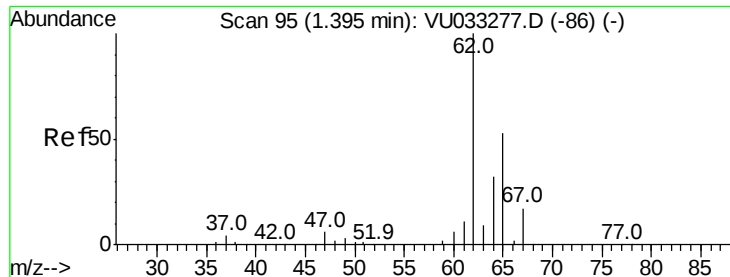
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 18 08:39:24 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR071619WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Jul 18 08:01:21 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 6.964 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033283.D

Acq: 17 Jul 2019 12:02

Instrument :

MSVOA\_U

ClientSampled :

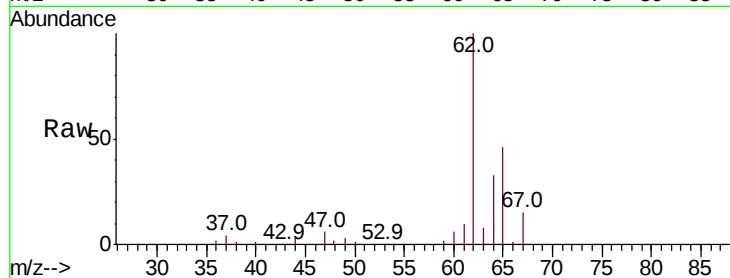
A52L0

Tot Ion: 62 Resp: 94615

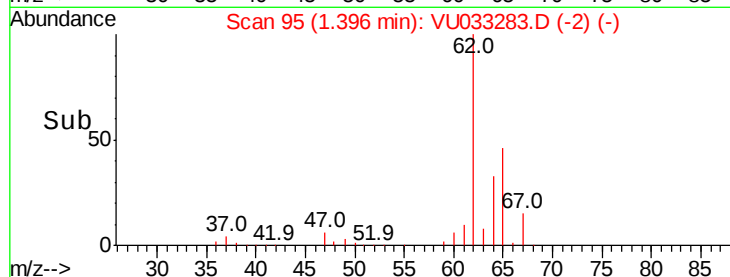
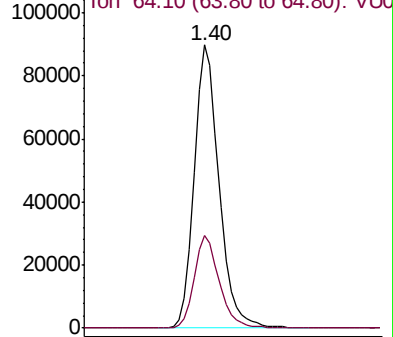
Ion Ratio Lower Upper

62 100

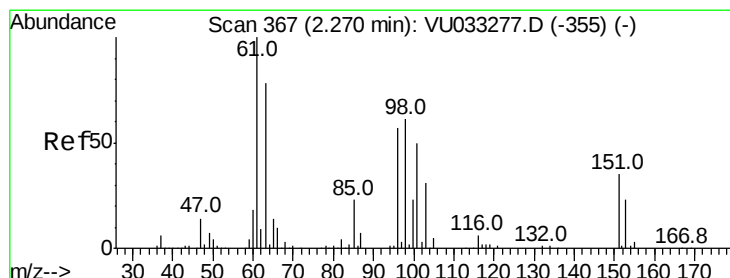
64 32.6 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU033283.D (-2) (-)



Time-->



#12

1,1-Dichloroethene

Concen: 1.907 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033283.D

Acq: 17 Jul 2019 12:02

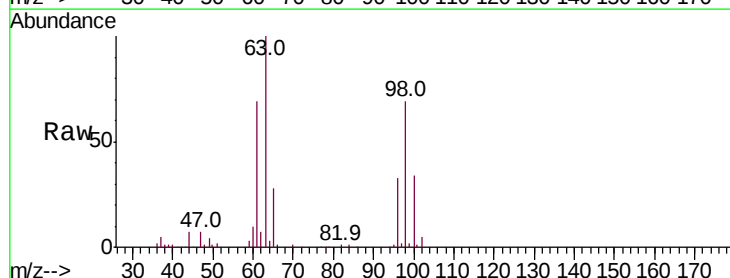
Tgt Ion: 96 Resp: 19771

Ion Ratio Lower Upper

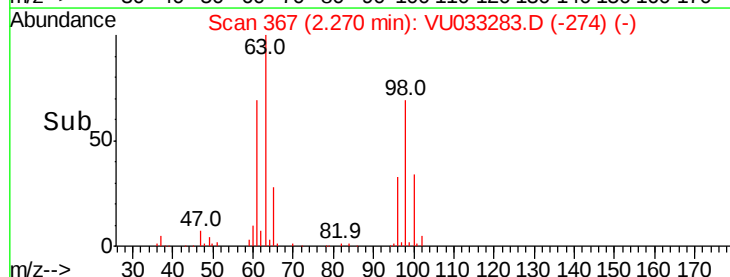
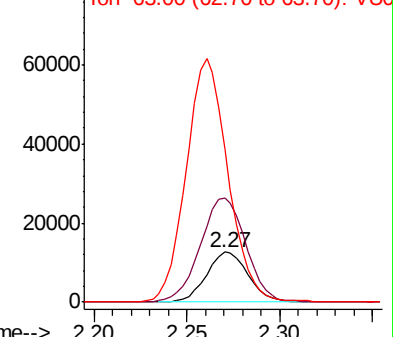
96 100

61 209.8 129.3 240.1

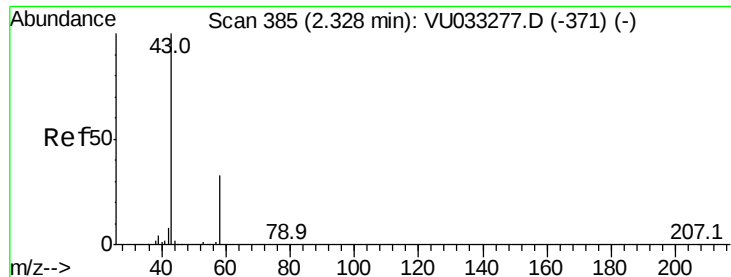
63 306.3 108.9 202.3#



Abundance Ion 96.00 (95.70 to 96.70): VU033283.D (-274) (-)



Time-->



#13

Acetone

Concen: 4.030 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.02 min

Lab File: VU033283.D

Acq: 17 Jul 2019 12:02

Instrument :

MSVOA\_U

ClientSampled :

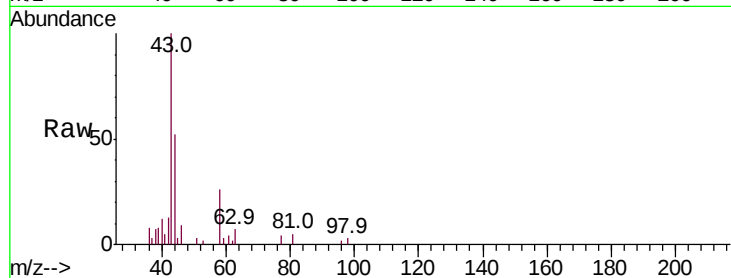
A52L0

Tot Ion: 43 Resp: 8451

Ion Ratio Lower Upper

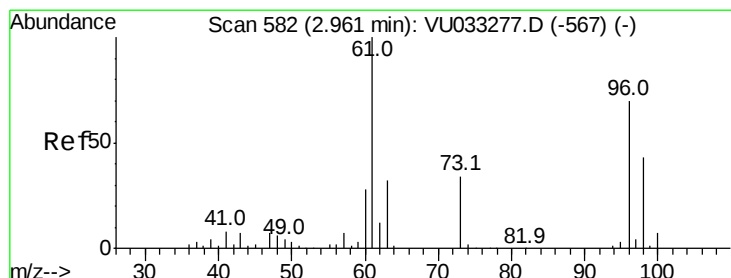
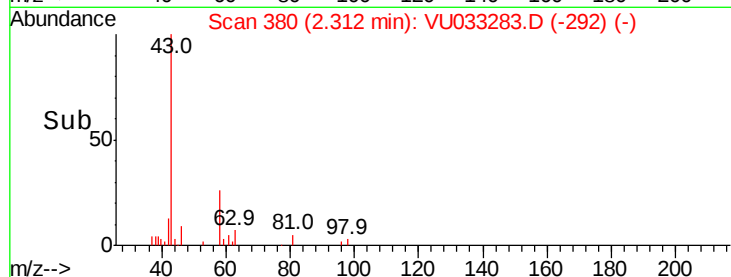
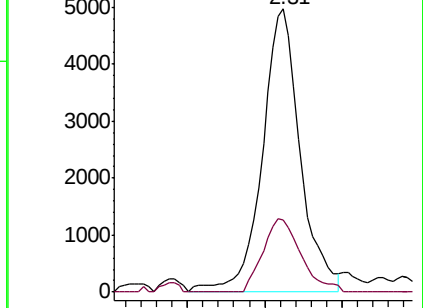
43 100

58 26.0 0.0 66.6



Abundance Ion 43.05 (42.75 to 43.75): VU033277.D (-371) (-)

Ion 58.05 (57.75 to 58.75): VU033277.D (-371) (-)



#18

trans-1,2-Dichloroethene

Concen: 0.315 ug/L

RT: 2.96 min Scan# 582

Delta R.T. 0.00 min

Lab File: VU033283.D

Acq: 17 Jul 2019 12:02

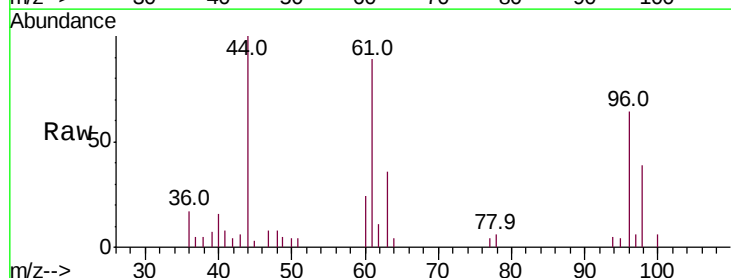
Tgt Ion: 96 Resp: 3610

Ion Ratio Lower Upper

96 100

61 138.9 107.1 198.9

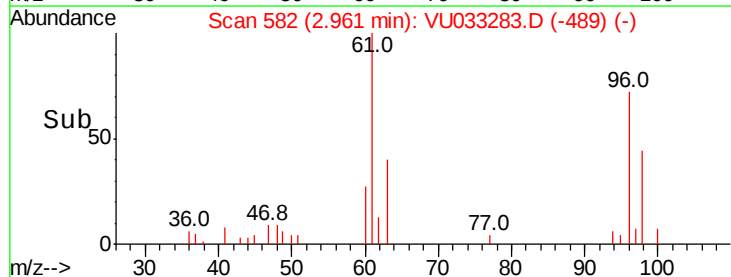
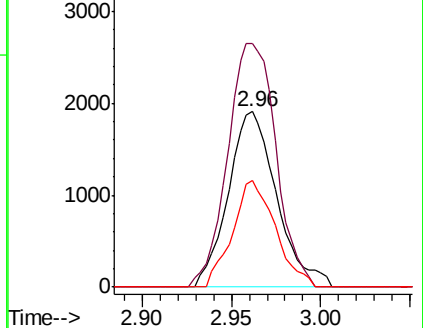
98 60.7 45.4 84.4

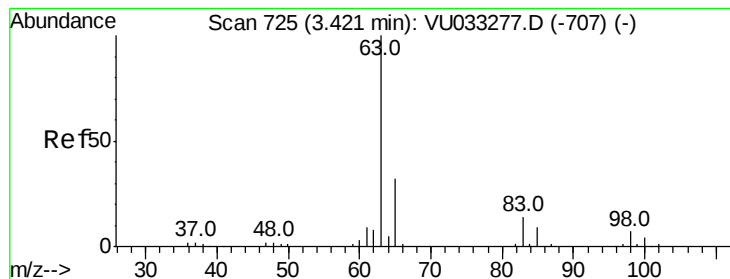


Abundance Ion 96.00 (95.70 to 96.70): VU033277.D (-567) (-)

Ion 61.05 (60.75 to 61.75): VU033277.D (-567) (-)

Ion 97.95 (97.65 to 98.65): VU033277.D (-567) (-)





#19

1,1-Dichloroethane

Concen: 1.237 ug/L

RT: 3.42 min Scan# 725

Delta R.T. 0.00 min

Lab File: VU033283.D

Acq: 17 Jul 2019 12:02

Instrument :

MSVOA\_U

ClientSampleId :

A52L0

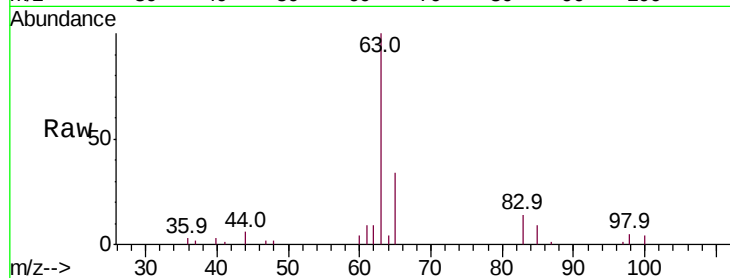
Tot Ion: 63 Resp: 21287

Ion Ratio Lower Upper

63 100

65 33.6 21.7 40.3

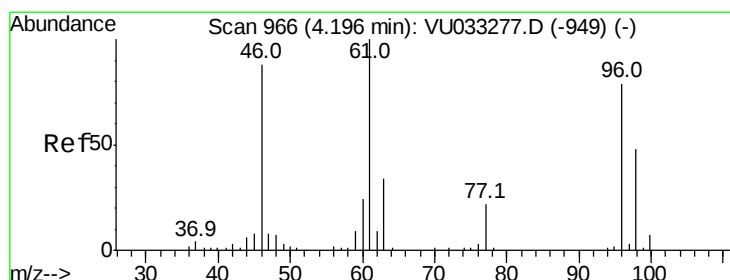
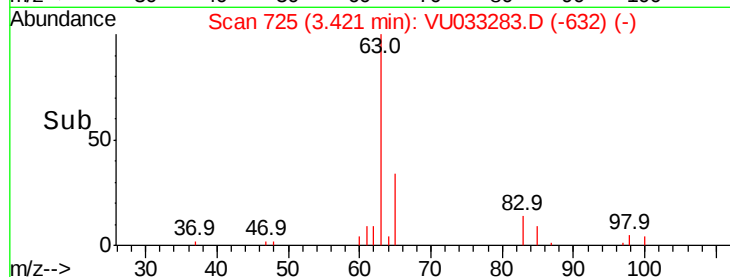
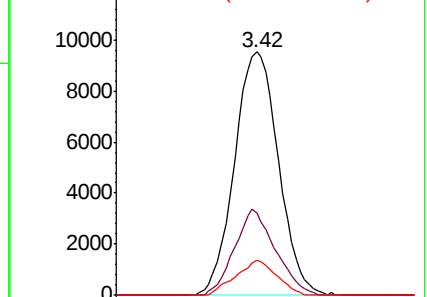
83 14.3 9.0 16.8



Abundance Ion 63.10 (62.80 to 63.80): VU033277.D (-707) (-)

Ion 65.10 (64.80 to 65.80): VU033277.D (-707) (-)

Ion 83.05 (82.75 to 83.75): VU033277.D (-707) (-)



#22

cis-1,2-Dichloroethene

Concen: 381.102 ug/L

RT: 4.20 min Scan# 966

Delta R.T. 0.00 min

Lab File: VU033283.D

Acq: 17 Jul 2019 12:02

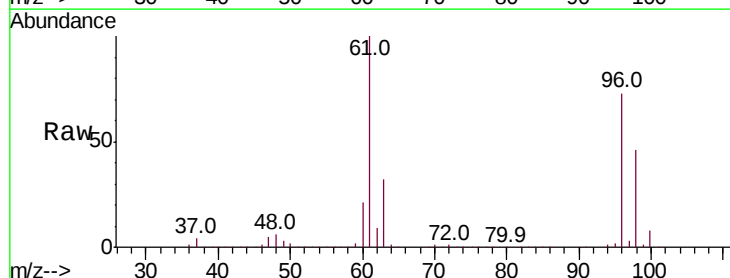
Tgt Ion: 96 Resp: 3688877

Ion Ratio Lower Upper

96 100

61 136.3 89.2 165.6

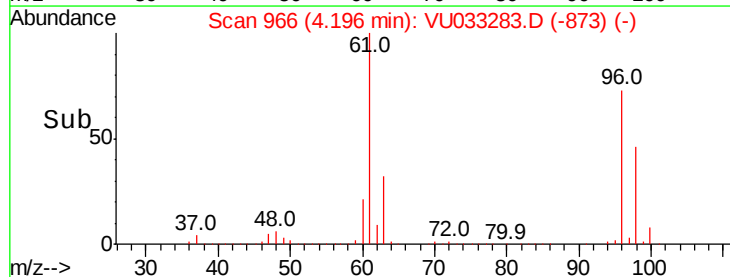
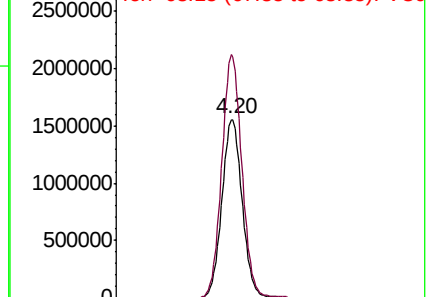
68 0.0 0.0 0.0

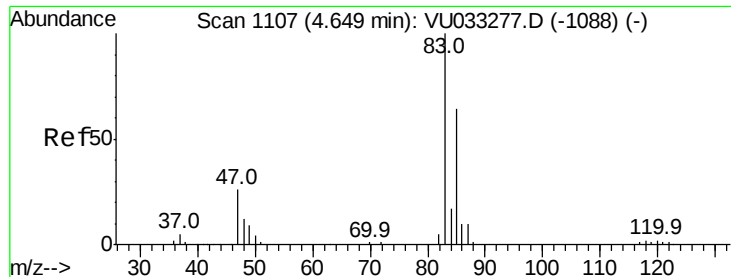


Abundance Ion 96.00 (95.70 to 96.70): VU033277.D (-949) (-)

Ion 61.05 (60.75 to 61.75): VU033277.D (-949) (-)

Ion 68.15 (67.85 to 68.85): VU033277.D (-949) (-)

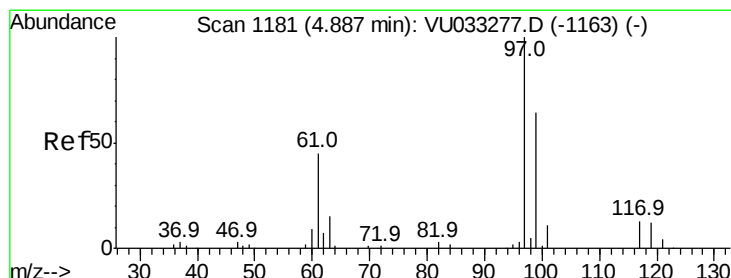
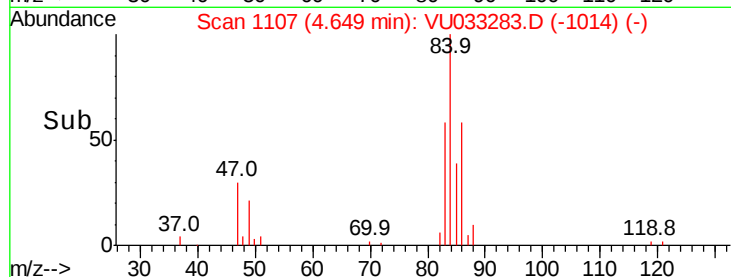
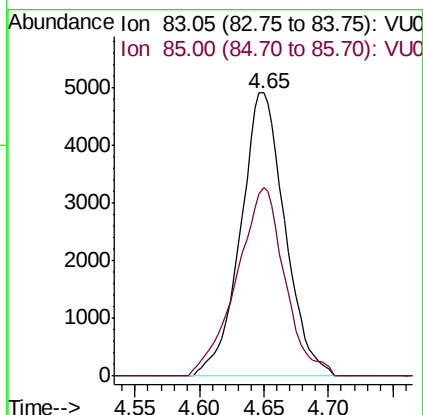
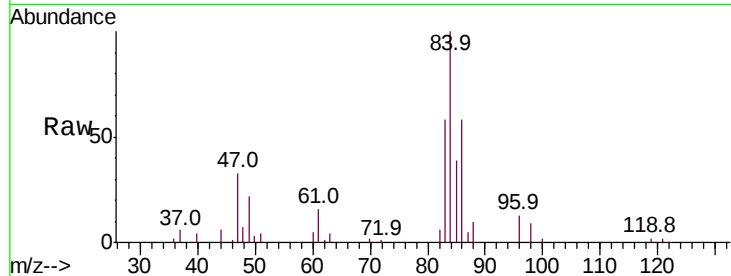




#25  
Chloroform  
Concen: 0.616 ug/L  
RT: 4.65 min Scan# 1107  
Delta R.T. 0.00 min  
Lab File: VU033283.D  
Acq: 17 Jul 2019 12:02

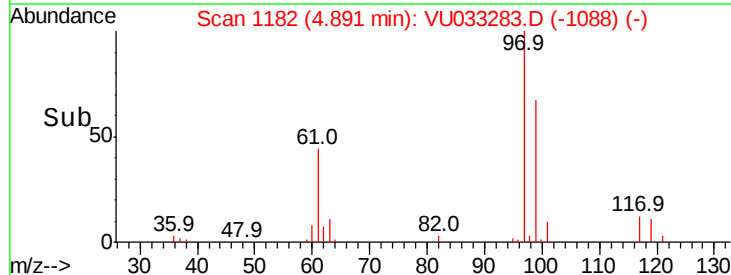
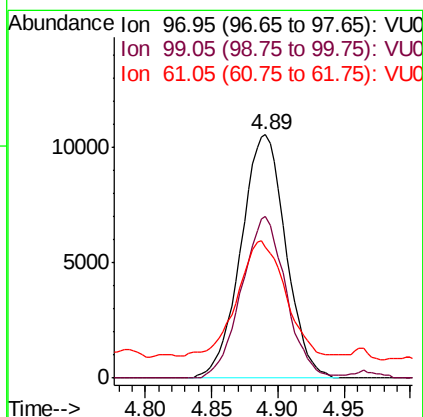
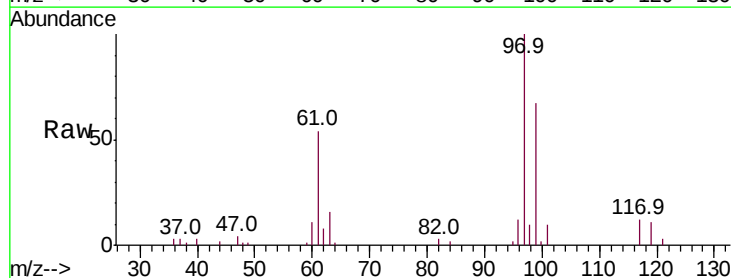
Instrument :  
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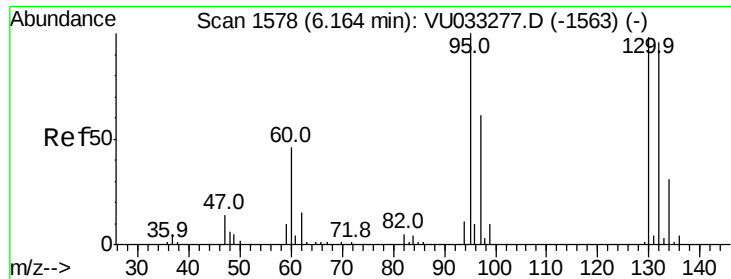
Tot Ion: 83 Resp: 11746  
Ion Ratio Lower Upper  
83 100  
85 66.8 45.4 84.4



#29  
1,1,1-Trichloroethane  
Concen: 1.633 ug/L  
RT: 4.89 min Scan# 1182  
Delta R.T. 0.00 min  
Lab File: VU033283.D  
Acq: 17 Jul 2019 12:02

Tgt Ion: 97 Resp: 24799  
Ion Ratio Lower Upper  
97 100  
99 65.5 51.6 77.4  
61 52.3 36.2 54.4

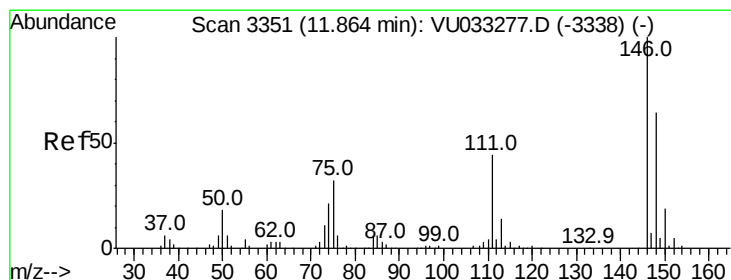
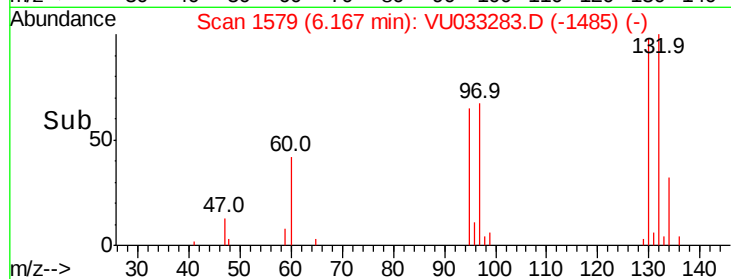
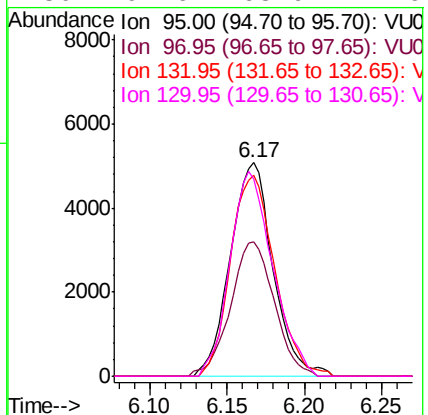
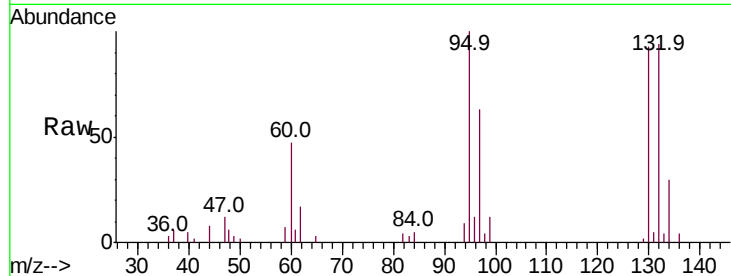




#34  
 Trichloroethene  
 Concen: 0.986 ug/L  
 RT: 6.17 min Scan# 1579  
 Delta R.T. 0.00 min  
 Lab File: VU033283.D  
 Acq: 17 Jul 2019 12:02

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A52L0

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 95    | Resp: | 9718  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 62.9  | 44.5  | 82.7  |
| 132      | 94.0  | 66.6  | 123.8 |
| 130      | 92.6  | 68.9  | 127.9 |



#65  
 1,2-Dichlorobenzene  
 Concen: 0.178 ug/L  
 RT: 11.86 min Scan# 3350  
 Delta R.T. -0.00 min  
 Lab File: VU033283.D  
 Acq: 17 Jul 2019 12:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 3017  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 61.9  | 34.2  | 51.4# |
| 148      | 69.3  | 52.0  | 78.0  |

