

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV082418\  
 Data File : VV007184.D  
 Acq On : 24 Aug 2018 21:52  
 Operator : SY/MD  
 Sample : J4622-12DL 20X  
 Misc : 5.0 mL/MSVOA\_V/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 ETBK4DL

Quant Time: Aug 25 01:06:53 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM082418WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Aug 25 00:12:31 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 647496   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 623620   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 248881   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 218234   | 47.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 95.96%  |
| 7) Chloroethane-d5             | 1.57    | 69    | 171797   | 46.58    | ug/L | -0.01   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 93.16%  |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 294447   | 37.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 74.42%  |
| 21) 2-Butanone-d5              | 3.95    | 46    | 329008   | 97.07    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 97.07%  |
| 24) Chloroform-d               | 4.40    | 84    | 427872   | 48.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.94%  |
| 26) 1,2-Dichloroethane-d4      | 5.09    | 65    | 271763   | 50.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.80% |
| 32) Benzene-d6                 | 5.10    | 84    | 875275   | 49.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.82%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 289547   | 49.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 99.62%  |
| 41) Toluene-d8                 | 7.37    | 98    | 702215   | 45.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 90.04%  |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 114586   | 45.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 90.20%  |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 159447   | 86.93    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 86.93%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27   | 84    | 365031   | 47.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 94.26%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 263867   | 50.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.60% |

## Target Compounds

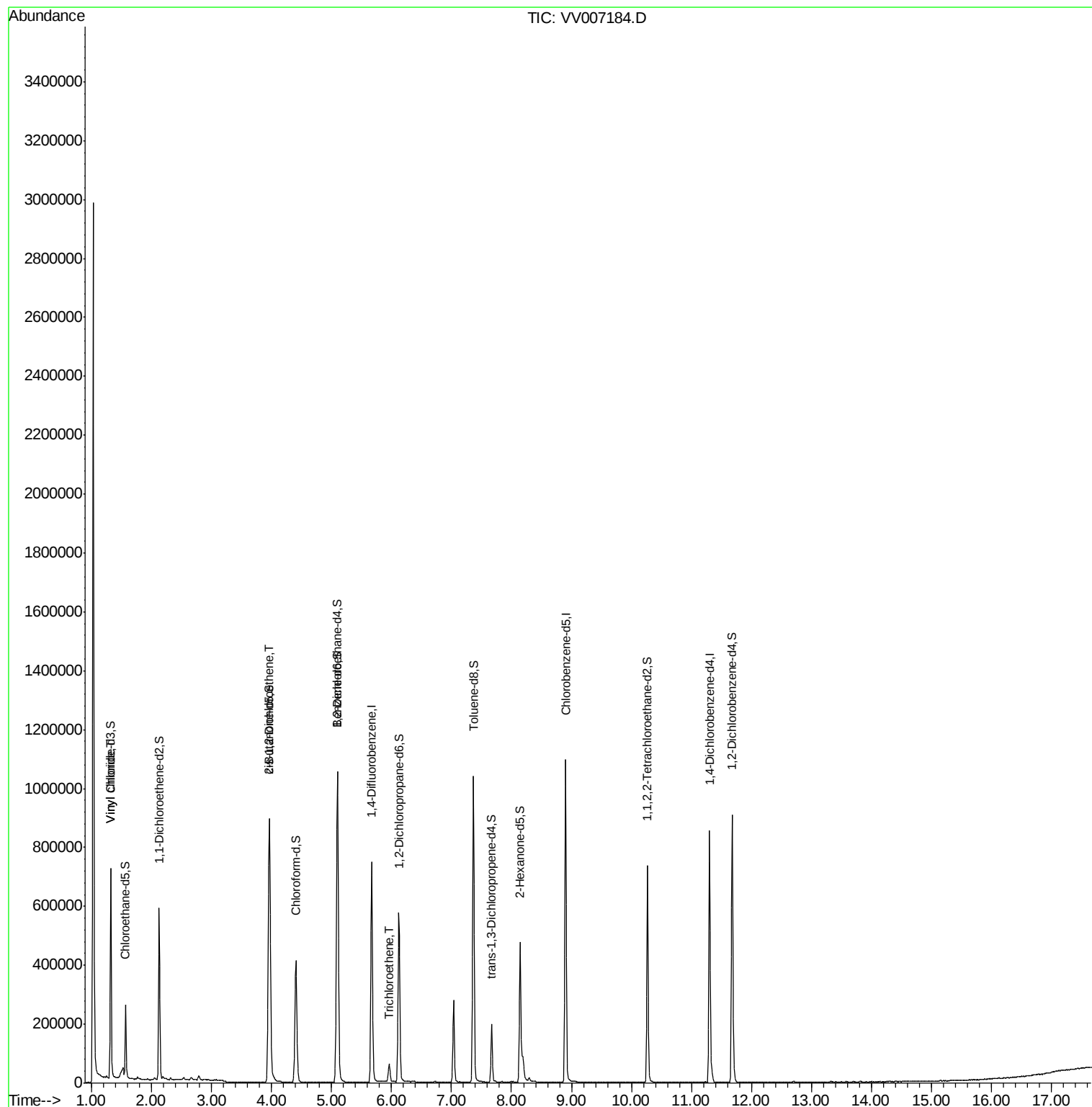
|                            |      |    |        |             | Qvalue |
|----------------------------|------|----|--------|-------------|--------|
| 5) Vinyl chloride          | 1.32 | 62 | 295634 | 54.305 ug/L | 99     |
| 20) cis-1,2-Dichloroethene | 3.97 | 96 | 407884 | 80.736 ug/L | 99     |
| 34) Trichloroethene        | 5.96 | 95 | 17962  | 3.824 ug/L  | 98     |

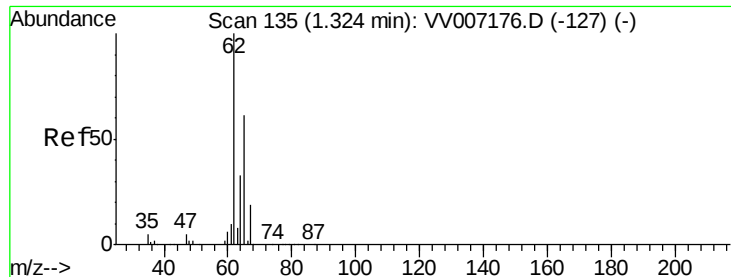
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_V\DATA\VV082418\  
Data File : VV007184.D  
Acq On : 24 Aug 2018 21:52  
Operator : SY/MD  
Sample : J4622-12DL 20X  
Misc : 5.0 mL/MSVOA\_V/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
ETBK4DL

Quant Time: Aug 25 01:06:53 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM082418WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Aug 25 00:12:31 2018  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 54.305 ug/L

RT: 1.32 min Scan# 135

Delta R.T. 0.00 min

Lab File: VV007184.D

Acq: 24 Aug 2018 21:52

Instrument :

MSVOA\_V

ClientSampleId :

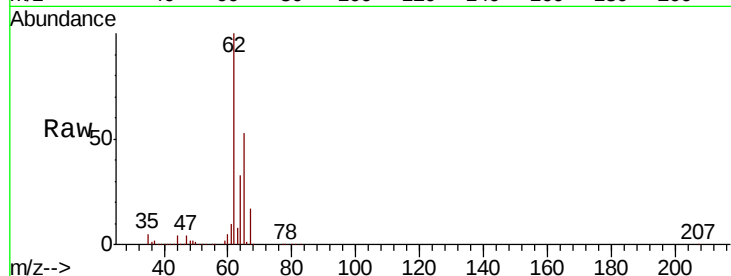
ETBK4DL

Tgt Ion: 62 Resp: 295634

Ion Ratio Lower Upper

62 100

64 33.5 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VV007176.D (-127) (-)

Ion 64.00 (63.70 to 64.70): VV007176.D (-127) (-)

1.32

300000

250000

200000

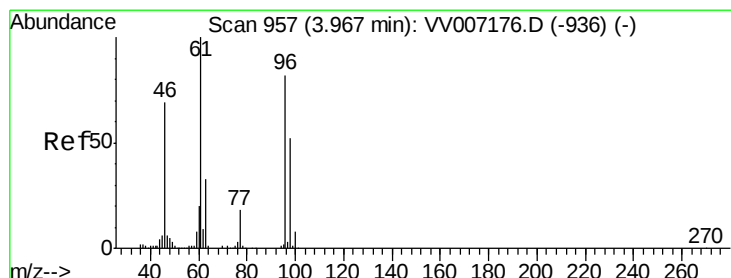
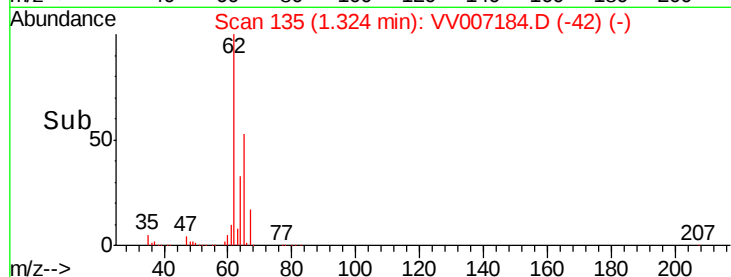
150000

100000

50000

0

Time--> 1.25 1.30 1.35 1.40 1.45



#20

cis-1,2-Dichloroethene

Concen: 80.736 ug/L

RT: 3.97 min Scan# 957

Delta R.T. 0.00 min

Lab File: VV007184.D

Acq: 24 Aug 2018 21:52

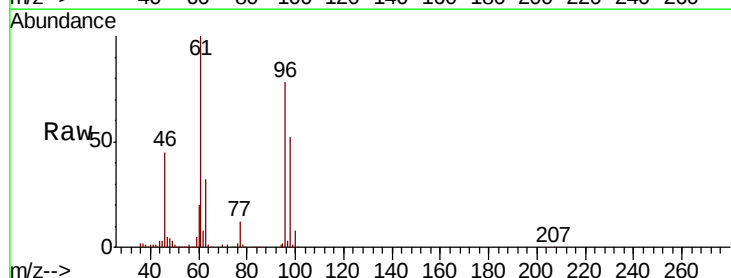
Tgt Ion: 96 Resp: 407884

Ion Ratio Lower Upper

96 100

61 127.5 88.2 163.8

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV007176.D (-936) (-)

Ion 61.00 (60.70 to 61.70): VV007176.D (-936) (-)

Ion 68.00 (67.70 to 68.70): VV007176.D (-936) (-)

300000

250000

200000

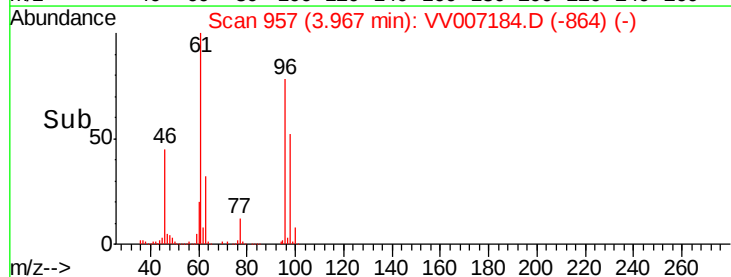
150000

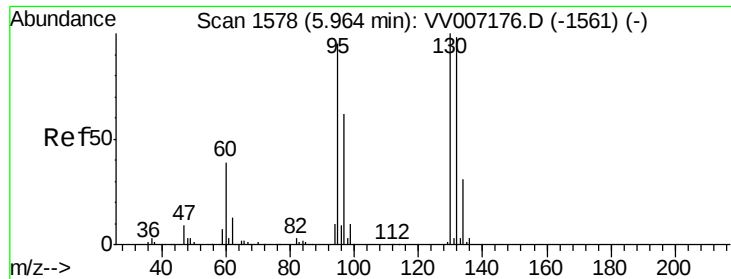
100000

50000

0

Time--> 3.85 3.90 3.95 4.00 4.05

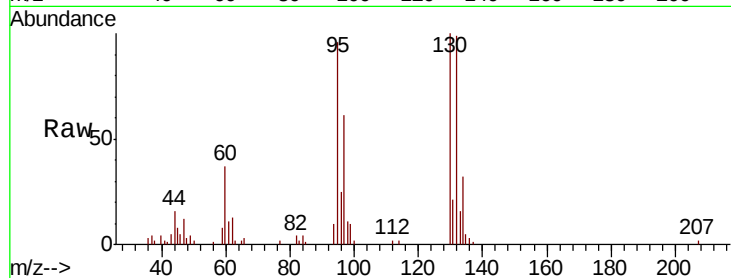




#34  
 Trichloroethene  
 Concen: 3.824 ug/L  
 RT: 5.96 min Scan# 1578  
 Delta R.T. 0.00 min  
 Lab File: VV007184.D  
 Acq: 24 Aug 2018 21:52

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 ETBK4DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 17962 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 62.9  | 45.4  | 84.2  |
| 132      | 102.9 | 70.8  | 131.4 |
| 130      | 103.8 | 71.7  | 133.3 |



Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 97.00 (96.70 to 97.70): VV0  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

