

(QT Reviewed)

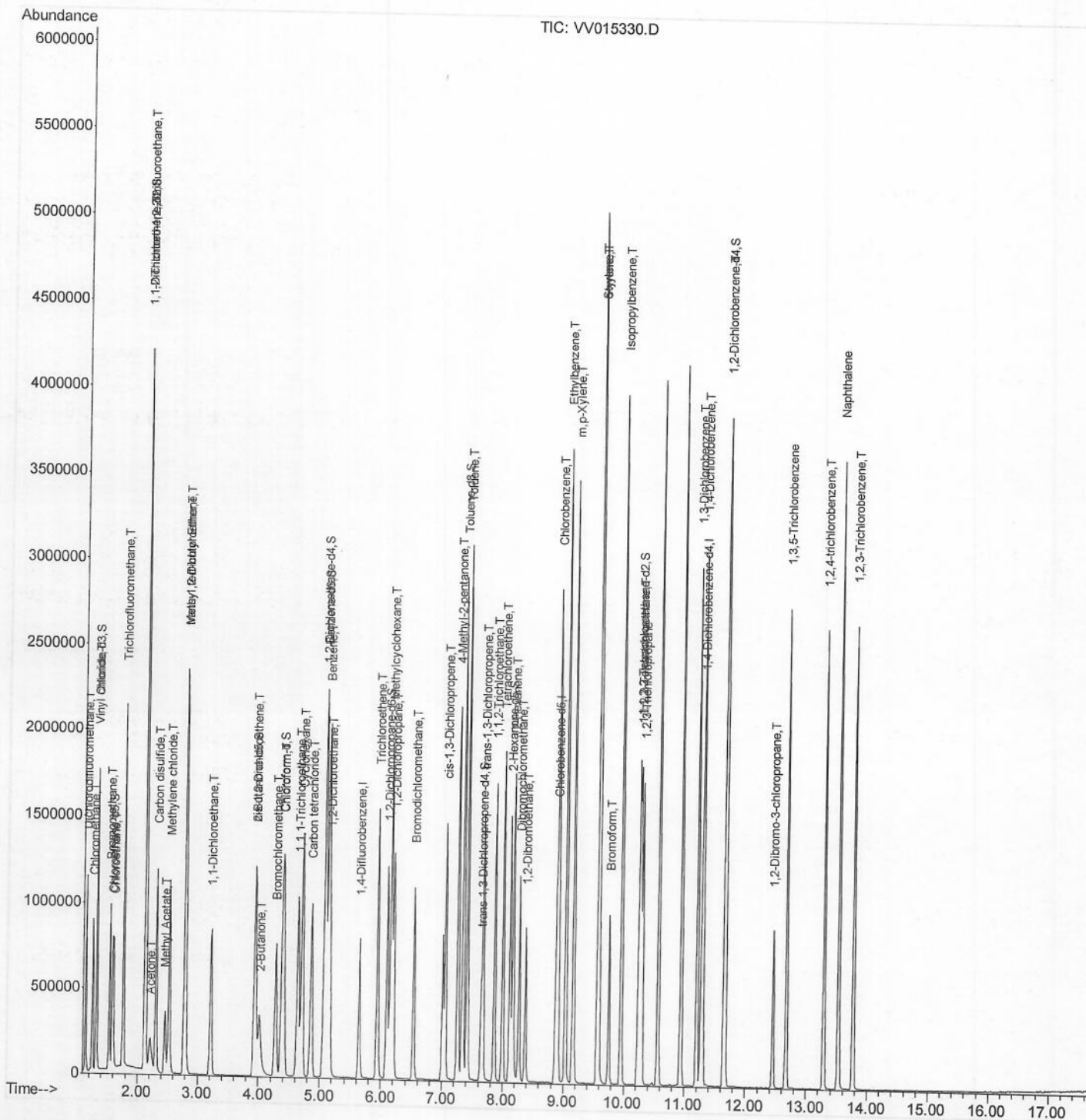
```
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV040120\  
Data File : VV015330.D  
Acq On : 01 Apr 2020 11:58  
Operator : SY/MD  
Sample : VSTD10063  
Misc : 5.0mL/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
VSTD10063

## Manual Integrations APPROVED

apatel  
4/2/2020 4:26:07 PM

Quant Time: Apr 02 02:13:44 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM040120WMA.M  
Quant Title : VOC Analysis  
Qlast Update : Thu Apr 02 01:39:23 2020  
Response via : Initial Calibration



# Quantitation Report (Qedit)

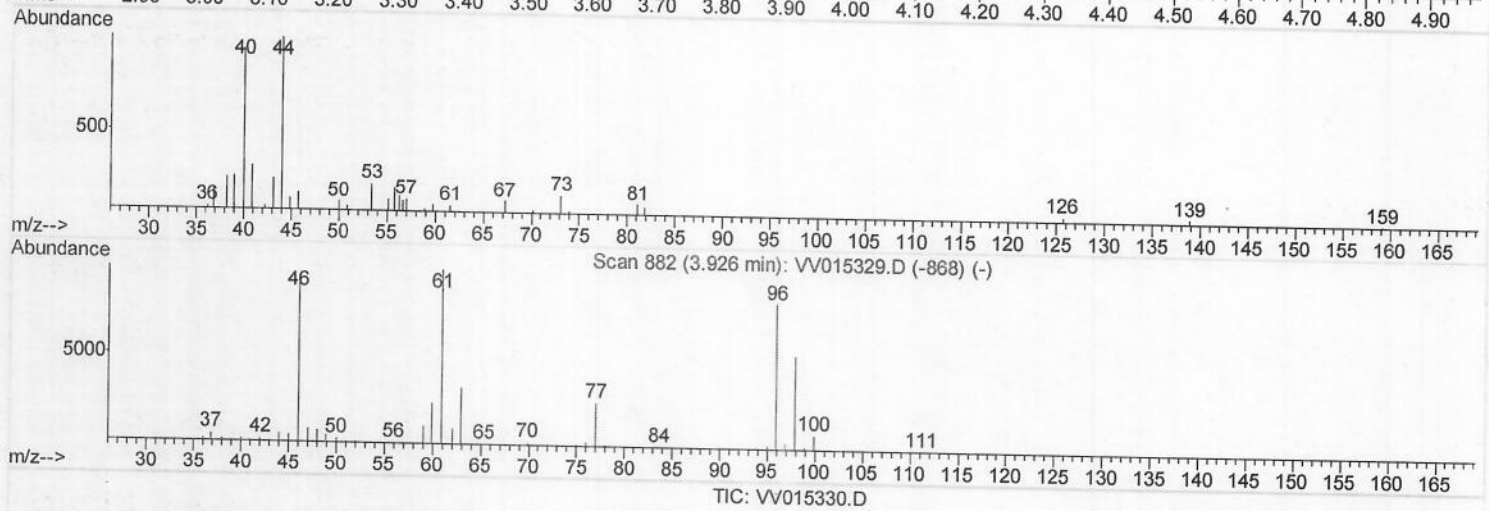
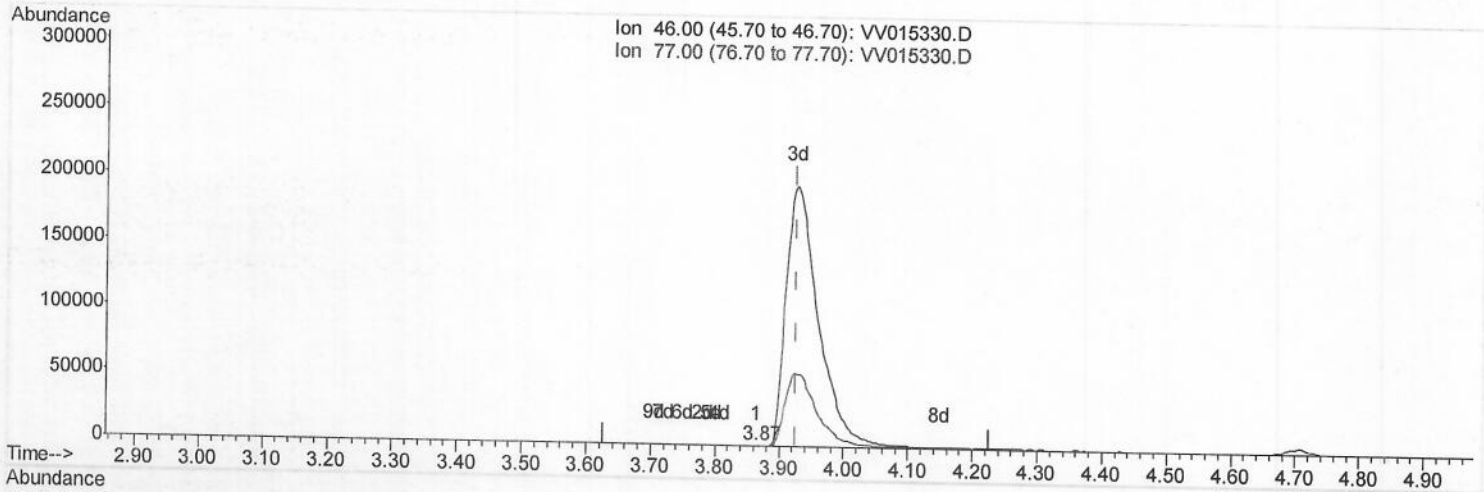
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 ClientSampled :  
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Quant Time: Apr 02 01:47:49 2020  
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 Response via : Initial Calibration



(21) 2-Butanone-d5 (S)

3.865min (-0.061) 0.04ug/L

response 149

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 46.00 | 100   | 100   |
| 77.00 | 26.70 | 32.89 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

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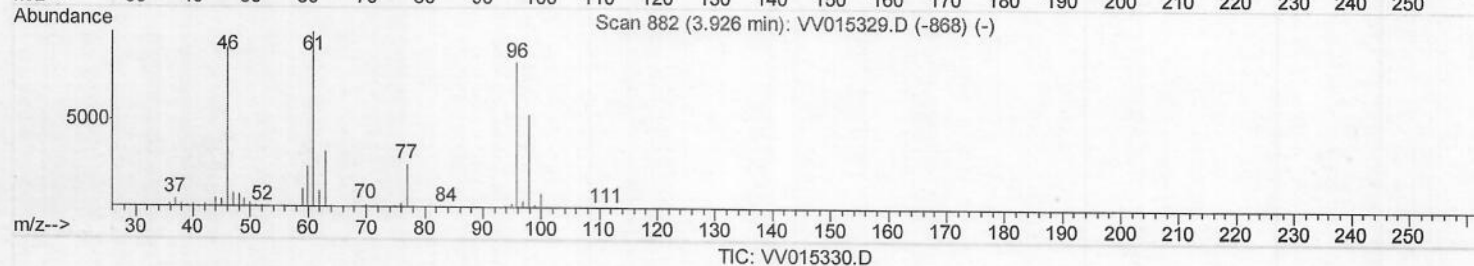
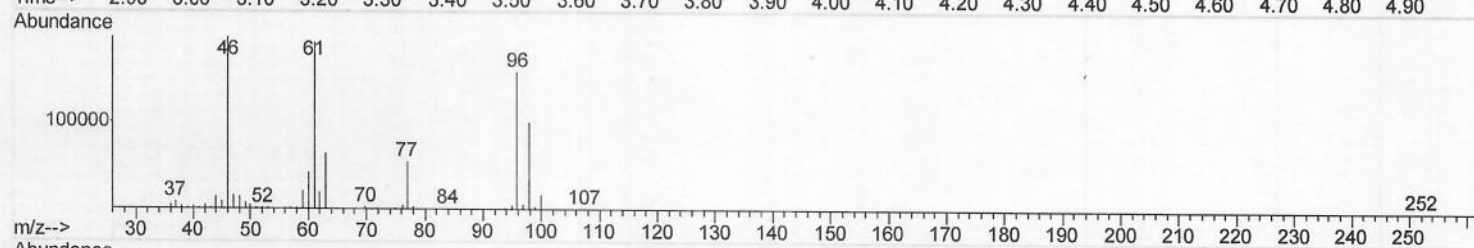
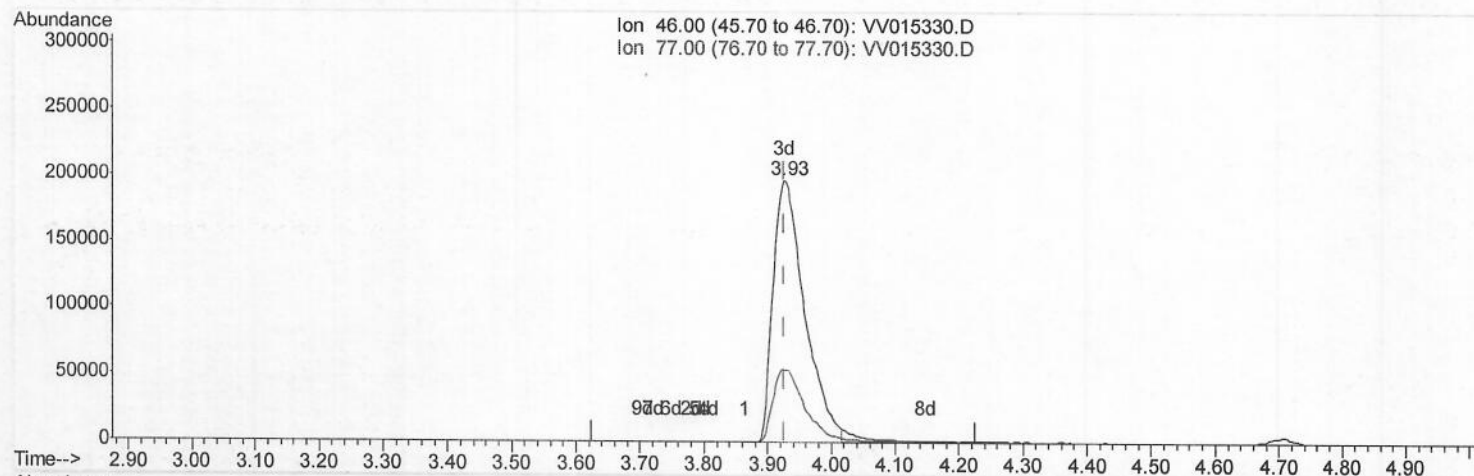
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Manual Integrations  
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(21) 2-Butanone-d5 (S)

3.926min (+0.000) 195.42ug/L m

response 673213

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 46.00 | 100   | 100   |
| 77.00 | 26.70 | 0.01# |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

MD  
 04/2/2020

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 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 719434   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 700647   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 348470   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                               |       |     |         |        |      |      |
|-------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3          | 1.32  | 65  | 588832  | 91.28  | ug/L | 0.00 |
| 7) Chloroethane-d5            | 1.58  | 69  | 496023  | 90.01  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2     | 2.12  | 63  | 1084851 | 94.09  | ug/L | 0.00 |
| 21) 2-Butanone-d5             | 3.93  | 46  | 673213m | 195.42 | ug/L | 0.00 |
| 24) Chloroform-d              | 4.38  | 84  | 982482  | 92.25  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4     | 5.06  | 65  | 605332  | 91.25  | ug/L | 0.00 |
| 32) Benzene-d6                | 5.08  | 84  | 1961692 | 90.92  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6    | 6.09  | 67  | 587984  | 92.42  | ug/L | 0.00 |
| 41) Toluene-d8                | 7.34  | 98  | 1915664 | 92.84  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene | 7.64  | 79  | 329702  | 93.80  | ug/L | 0.00 |
| 47) 2-Hexanone-d5             | 8.11  | 63  | 556064  | 191.39 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane | 10.24 | 84  | 854083  | 94.36  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4    | 11.65 | 152 | 716015  | 90.33  | ug/L | 0.00 |

MD  
 04/2/2020

## Target Compounds

|                                |      |     |         |         |      | Qvalue |
|--------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 638884  | 98.199  | ug/L | 99     |
| 3) Chloromethane               | 1.25 | 50  | 584346  | 95.303  | ug/L | 100    |
| 5) Vinyl chloride              | 1.32 | 62  | 607105  | 94.530  | ug/L | 100    |
| 6) Bromomethane                | 1.53 | 94  | 411639  | 96.960  | ug/L | 98     |
| 8) Chloroethane                | 1.60 | 64  | 391832  | 88.812  | ug/L | 97     |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 1189715 | 97.980  | ug/L | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 523641  | 96.503  | ug/L | 100    |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 500097  | 96.271  | ug/L | 96     |
| 13) Acetone                    | 2.21 | 43  | 436640  | 194.016 | ug/L | 99     |
| 14) Carbon disulfide           | 2.31 | 76  | 1391463 | 97.707  | ug/L | 99     |
| 15) Methyl Acetate             | 2.46 | 43  | 498040  | 100.389 | ug/L | 100    |
| 16) Methylene chloride         | 2.52 | 84  | 520856  | 95.649  | ug/L | 99     |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 488117  | 99.302  | ug/L | 96     |
| 18) Methyl tert-butyl Ether    | 2.79 | 73  | 1587527 | 97.969  | ug/L | 99     |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 868546  | 97.116  | ug/L | 99     |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 547571  | 97.276  | ug/L | 97     |
| 22) 2-Butanone                 | 4.01 | 43  | 711743  | 207.899 | ug/L | 98     |
| 23) Bromochloromethane         | 4.28 | 128 | 276925  | 97.486  | ug/L | 96     |
| 25) Chloroform                 | 4.41 | 83  | 930388  | 95.934  | ug/L | 99     |
| 27) 1,2-Dichloroethane         | 5.16 | 62  | 709716  | 97.163  | ug/L | 100    |
| 29) Cyclohexane                | 4.70 | 56  | 796801  | 95.585  | ug/L | 100    |
| 30) 1,1,1-Trichloroethane      | 4.64 | 97  | 869990  | 96.629  | ug/L | 99     |
| 31) Carbon tetrachloride       | 4.86 | 117 | 759227  | 98.630  | ug/L | 100    |
| 33) Benzene                    | 5.13 | 78  | 2031583 | 97.964  | ug/L | 100    |
| 34) Trichloroethene            | 5.94 | 95  | 542713  | 98.835  | ug/L | 100    |
| 35) Methylcyclohexane          | 6.15 | 83  | 881109  | 97.942  | ug/L | 99     |
| 37) 1,2-Dichloropropane        | 6.20 | 63  | 505789  | 99.374  | ug/L | 100    |
| 38) Bromodichloromethane       | 6.53 | 83  | 734146  | 98.387  | ug/L | 100    |
| 39) cis-1,3-Dichloropropene    | 7.05 | 75  | 878479  | 102.705 | ug/L | 99     |
| 40) 4-Methyl-2-pentanone       | 7.25 | 43  | 1424480 | 199.085 | ug/L | 99     |

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| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 7.41  | 91   | 2267155  | 98.370  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75   | 845669   | 101.748 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 7.86  | 97   | 521381   | 97.142  | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.00  | 164  | 398906   | 101.332 | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.16  | 43   | 1120747  | 206.848 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.27  | 129  | 604079   | 102.772 | ug/L  | 97       |
| 50) 1,2-Dibromoethane          | 8.37  | 107  | 574241   | 100.228 | ug/L  | 100      |
| 51) Chlorobenzene              | 8.90  | 112  | 1501270  | 99.387  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.03  | 91   | 2578132  | 99.663  | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.16  | 106  | 1010560  | 101.451 | ug/L  | 100      |
| 54) o-xylene                   | 9.57  | 106  | 996960   | 99.917  | ug/L  | 99       |
| 55) Styrene                    | 9.58  | 104  | 1710880  | 103.114 | ug/L  | 98       |
| 56) Isopropylbenzene           | 9.95  | 105  | 2602304  | 100.684 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 835347   | 96.944  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.30 | 75   | 666074   | 96.918  | ug/L  | 99       |
| 61) Bromoform                  | 9.75  | 173  | 407394   | 104.663 | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.20 | 146  | 1155232  | 98.474  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.30 | 146  | 1156223  | 97.178  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146  | 1156378  | 96.643  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 223235   | 94.483  | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 778750   | 100.164 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.29 | 180  | 739303   | 104.102 | ug/L  | 99       |
| 69) Naphthalene                | 13.53 | 128  | 2784859  | 102.572 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 750947   | 102.654 | ug/L  | 99       |

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