

Data File : VW001880.D

Acq On : 05 Apr 2018 14:50

Operator : JC/SY

Sample : VSTD10085

Misc : 5.00G/10ML/MSVOA\_W/SOIL

ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10085

Quant Time: Apr 05 15:07:55 2018

Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040518S.M

Quant Title : VOC Analysis

QLast Update : Thu Apr 05 15:01:36 2018

Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 353421   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.64 | 117  | 345800   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 177759   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 2.35  | 65  | 475528  | 82.24  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.88  | 69  | 351868  | 82.48  | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.01  | 63  | 1099563 | 91.03  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.09  | 46  | 298283  | 450.17 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 978211  | 86.68  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 587411  | 88.35  | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.28  | 84  | 1954237 | 91.39  | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.28  | 67  | 619838  | 87.91  | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.34 | 98  | 1917897 | 98.91  | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.59 | 79  | 289927  | 99.81  | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.93 | 63  | 373990  | 373.32 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.71 | 84  | 619906  | 102.30 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.87 | 152 | 670043  | 94.25  | ug/L | 0.00 |

## Target Compounds

|                                |       |     |         |        |      | Qvalue |
|--------------------------------|-------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 2.00  | 85  | 830198  | 106.20 | ug/L | 99     |
| 3) Chloromethane               | 2.22  | 50  | 741015  | 93.01  | ug/L | 98     |
| 5) Vinyl chloride              | 2.36  | 62  | 705540  | 106.03 | ug/L | 98     |
| 6) Bromomethane                | 2.76  | 94  | 322127  | 119.97 | ug/L | 99     |
| 8) Chloroethane                | 2.92  | 64  | 366779  | 102.00 | ug/L | 97     |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 938131  | 97.73  | ug/L | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06  | 101 | 572520  | 98.98  | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 4.03  | 96  | 539296  | 105.23 | ug/L | 92     |
| 13) Acetone                    | 4.13  | 43  | 337094  | 171.92 | ug/L | 99     |
| 14) Carbon disulfide           | 4.37  | 76  | 1880867 | 101.56 | ug/L | 100    |
| 15) Methyl Acetate             | 4.68  | 43  | 428810  | 128.96 | ug/L | 98     |
| 16) Methylene chloride         | 4.92  | 84  | 571920  | 78.63  | ug/L | 100    |
| 17) Methyl tert-butyl Ether    | 5.43  | 73  | 1371128 | 120.70 | ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 584751  | 108.81 | ug/L | 100    |
| 19) 1,1-Dichloroethane         | 6.22  | 63  | 1059312 | 101.66 | ug/L | 99     |
| 21) 2-Butanone                 | 7.18  | 43  | 568404  | 249.08 | ug/L | 98     |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 614314  | 112.07 | ug/L | 97     |
| 23) Bromochloromethane         | 7.52  | 128 | 262719  | 109.11 | ug/L | 96     |
| 25) Chloroform                 | 7.68  | 83  | 1081294 | 99.00  | ug/L | 100    |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 767903  | 99.64  | ug/L | 99     |
| 30) Cyclohexane                | 7.95  | 56  | 1103583 | 127.06 | ug/L | 99     |
| 31) 1,1,1-Trichloroethane      | 7.88  | 97  | 957327  | 105.23 | ug/L | 99     |
| 32) Carbon tetrachloride       | 8.07  | 117 | 865988  | 104.70 | ug/L | 99     |
| 34) Benzene                    | 8.33  | 78  | 2339017 | 104.45 | ug/L | 100    |
| 35) Trichloroethene            | 9.10  | 95  | 616063  | 102.80 | ug/L | 100    |
| 36) Methylcyclohexane          | 9.34  | 83  | 1107544 | 117.87 | ug/L | 99     |
| 40) 1,2-Dichloropropane        | 9.38  | 63  | 612915  | 99.17  | ug/L | 100    |
| 41) Bromodichloromethane       | 9.65  | 83  | 768049  | 99.53  | ug/L | 97     |
| 42) cis-1,3-Dichloropropene    | 10.08 | 75  | 967001  | 116.31 | ug/L | 98     |
| 43) 4-Methyl-2-pentanone       | 10.22 | 43  | 1216381 | 285.55 | ug/L | 98     |

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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10085

Quant Time: Apr 05 15:07:55 2018  
Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040518S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Apr 05 15:01:36 2018  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 44) Toluene                    | 10.40 | 91   | 2593200  | 111.81 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene  | 10.62 | 75   | 854804   | 115.08 | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane      | 10.80 | 97   | 465923   | 101.61 | ug/L  | 97       |
| 47) Tetrachloroethene          | 10.87 | 164  | 496446   | 106.64 | ug/L  | 99       |
| 49) 2-Hexanone                 | 10.98 | 43   | 892925   | 288.66 | ug/L  | 99       |
| 50) Dibromochloromethane       | 11.14 | 129  | 556292   | 105.17 | ug/L  | 99       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 461090   | 112.49 | ug/L  | 95       |
| 52) Chlorobenzene              | 11.67 | 112  | 1576537  | 103.94 | ug/L  | 99       |
| 53) Ethylbenzene               | 11.74 | 91   | 2956840  | 116.15 | ug/L  | 99       |
| 54) m,p-Xylene                 | 11.85 | 106  | 1094623  | 117.18 | ug/L  | 99       |
| 55) o-xylene                   | 12.18 | 106  | 1032767  | 118.13 | ug/L  | 100      |
| 56) Styrene                    | 12.19 | 104  | 1771196  | 116.08 | ug/L  | 97       |
| 57) Isopropylbenzene           | 12.48 | 105  | 2842557  | 121.35 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 654993   | 111.22 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 12.78 | 75   | 523369   | 114.87 | ug/L  | 98       |
| 62) Bromoform                  | 12.36 | 173  | 360850   | 110.26 | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene        | 13.51 | 146  | 1234211  | 108.91 | ug/L  | 100      |
| 64) 1,4-Dichlorobenzene        | 13.59 | 146  | 1264895  | 101.93 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 13.88 | 146  | 1160762  | 103.12 | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 14.50 | 75   | 132118   | 117.96 | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 14.65 | 180  | 956749   | 108.61 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 15.15 | 180  | 784043   | 114.10 | ug/L  | 99       |
| 69) Naphthalene                | 15.39 | 128  | 1873565  | 138.82 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.58 | 180  | 731152   | 110.79 | ug/L  | 99       |

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

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