

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080718\  
 Data File : VU025933.D  
 Acq On : 07 Aug 2018 10:47  
 Operator : MD/SY  
 Sample : VSTD00540  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00540

Quant Time: Aug 08 01:26:59 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080718WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Aug 08 01:25:58 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 391927   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 364830   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 191266   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.40  | 65  | 8936  | 4.11 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.68  | 69  | 7173  | 4.40 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.28  | 63  | 18806 | 4.47 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.18  | 46  | 10964 | 7.34 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.65  | 84  | 18016 | 4.29 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.31  | 65  | 12458 | 4.49 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.35  | 84  | 34068 | 4.24 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.34  | 67  | 10523 | 4.21 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.57  | 98  | 32563 | 4.17 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.86  | 79  | 5163  | 3.94 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.32  | 63  | 6900  | 6.63 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44 | 84  | 13419 | 3.87 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.87 | 152 | 13306 | 4.21 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |       |       |        | Qvalue |
|--------------------------------|------|-----|-------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.21 | 85  | 15336 | 5.14  | ug/L   | 97     |
| 3) Chloromethane               | 1.33 | 50  | 12232 | 4.88  | ug/L   | 96     |
| 5) Vinyl chloride              | 1.41 | 62  | 13103 | 4.84  | ug/L   | 99     |
| 6) Bromomethane                | 1.63 | 94  | 5026  | 4.19  | ug/L   | 92     |
| 8) Chloroethane                | 1.70 | 64  | 7631  | 4.87  | ug/L   | 90     |
| 9) Trichlorofluoromethane      | 1.89 | 101 | 19046 | 4.89  | ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 11064 | 5.14  | ug/L   | 97     |
| 12) 1,1-Dichloroethene         | 2.29 | 96  | 9327  | 4.71  | ug/L   | 89     |
| 13) Acetone                    | 2.32 | 43  | 21996 | 12.43 | ug/L   | 99     |
| 14) Carbon disulfide           | 2.48 | 76  | 35727 | 5.07  | ug/L   | 99     |
| 15) Methyl Acetate             | 2.62 | 43  | 13053 | 4.83  | ug/L   | 98     |
| 16) Methylene chloride         | 2.70 | 84  | 12826 | 4.98  | ug/L   | 97     |
| 17) trans-1,2-Dichloroethene   | 2.99 | 96  | 11865 | 4.86  | ug/L   | 96     |
| 18) Methyl tert-butyl Ether    | 3.00 | 73  | 36971 | 4.77  | ug/L   | 98     |
| 19) 1,1-Dichloroethane         | 3.45 | 63  | 21188 | 4.79  | ug/L   | 97     |
| 20) cis-1,2-Dichloroethene     | 4.23 | 96  | 13060 | 4.79  | ug/L   | 94     |
| 22) 2-Butanone                 | 4.27 | 43  | 23906 | 10.81 | ug/L   | 100    |
| 23) Bromochloromethane         | 4.56 | 128 | 7150  | 5.00  | ug/L   | 94     |
| 25) Chloroform                 | 4.68 | 83  | 23373 | 4.99  | ug/L   | 92     |
| 27) 1,2-Dichloroethane         | 5.41 | 62  | 17874 | 4.78  | ug/L   | 96     |
| 29) Cyclohexane                | 5.00 | 56  | 18427 | 4.79  | ug/L   | 97     |
| 30) 1,1,1-Trichloroethane      | 4.92 | 97  | 20464 | 4.93  | ug/L   | 99     |
| 31) Carbon tetrachloride       | 5.14 | 117 | 17670 | 4.76  | ug/L   | 100    |
| 33) Benzene                    | 5.39 | 78  | 46432 | 4.87  | ug/L   | 100    |
| 34) Trichloroethene            | 6.19 | 95  | 13755 | 5.18  | ug/L   | 97     |
| 35) Methylcyclohexane          | 6.42 | 83  | 18781 | 4.68  | ug/L   | 92     |
| 37) 1,2-Dichloropropane        | 6.44 | 63  | 12104 | 4.75  | ug/L # | 95     |
| 38) Bromodichloromethane       | 6.76 | 83  | 16888 | 4.88  | ug/L   | 99     |
| 39) cis-1,3-Dichloropropene    | 7.28 | 75  | 19293 | 4.65  | ug/L   | 92     |
| 40) 4-Methyl-2-pentanone       | 7.46 | 43  | 32405 | 9.33  | ug/L   | 97     |

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 Acq On : 07 Aug 2018 10:47  
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 Sample : VSTD00540  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00540

Quant Time: Aug 08 01:26:59 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080718WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Aug 08 01:25:58 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 42) Toluene                    | 7.64  | 91   | 49493    | 4.76 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.89  | 75   | 17858    | 4.55 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 8.07  | 97   | 11604    | 4.77 | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.23  | 164  | 11129    | 4.88 | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.37  | 43   | 26976    | 9.62 | ug/L  | 98       |
| 49) Dibromochloromethane       | 8.48  | 129  | 13407    | 4.49 | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.59  | 107  | 12641    | 4.63 | ug/L  | 97       |
| 51) Chlorobenzene              | 9.12  | 112  | 34661    | 4.86 | ug/L  | 98       |
| 52) Ethylbenzene               | 9.26  | 91   | 56631    | 4.78 | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.38  | 106  | 22317    | 4.80 | ug/L  | 98       |
| 54) o-xylene                   | 9.78  | 106  | 19796    | 4.48 | ug/L  | 85       |
| 55) Styrene                    | 9.80  | 104  | 32420    | 4.35 | ug/L  | 98       |
| 56) Isopropylbenzene           | 10.17 | 105  | 55076    | 4.69 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 19914    | 4.87 | ug/L  | 95       |
| 59) 1,2,3-Trichloropropane     | 10.50 | 75   | 15063    | 4.65 | ug/L  | 98       |
| 61) Bromoform                  | 9.96  | 173  | 9752     | 4.46 | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.42 | 146  | 28158    | 4.92 | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.51 | 146  | 29595    | 5.08 | ug/L  | 94       |
| 65) 1,2-Dichlorobenzene        | 11.89 | 146  | 28333    | 4.94 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.66 | 75   | 3688     | 4.23 | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene     | 12.89 | 180  | 19170    | 4.55 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.51 | 180  | 15804    | 4.32 | ug/L  | 93       |
| 69) Naphthalene                | 13.75 | 128  | 42102    | 3.91 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 17206    | 4.59 | ug/L  | 96       |

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

