

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071219\  
 Data File : VU033209.D  
 Acq On : 12 Jul 2019 09:18  
 Operator : JC/SP  
 Sample : VSTD00532  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00532

Manual Integrations  
 APPROVED

MMDadoda  
 7/15/2019 10:05:43 AM

Quant Time: Jul 12 23:35:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jul 12 23:28:24 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.87  | 114  | 297556   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 293950   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 135072   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |      |      |      |
|--------------------------------|-------|-----|--------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.39  | 65  | 11315  | 5.50 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.67  | 69  | 9318   | 5.60 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.26  | 63  | 20718  | 5.01 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.16  | 46  | 12571m | 7.75 | ug/L | 0.02 |
| 24) Chloroform-d               | 4.62  | 84  | 18646  | 4.82 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.29  | 65  | 12182  | 4.74 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.32  | 84  | 33963  | 4.55 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.31  | 67  | 11488  | 4.86 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.55  | 98  | 30932  | 4.41 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.84  | 79  | 5158   | 4.20 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.30  | 63  | 7790   | 7.04 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41 | 84  | 16243  | 4.42 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.85 | 152 | 11707  | 4.60 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |        |        | Qvalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 16993  | 5.743  | ug/L 96   |
| 3) Chloromethane               | 1.32 | 50  | 16826  | 6.155  | ug/L 98   |
| 5) Vinyl chloride              | 1.40 | 62  | 19193  | 6.879  | ug/L 99   |
| 6) Bromomethane                | 1.62 | 94  | 9606   | 5.893  | ug/L 97   |
| 8) Chloroethane                | 1.69 | 64  | 11227  | 6.849  | ug/L 94   |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 24329  | 6.294  | ug/L 98   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 11229  | 5.628  | ug/L 97   |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 10974  | 5.789  | ug/L 87   |
| 13) Acetone                    | 2.31 | 43  | 24035  | 10.940 | ug/L 99   |
| 14) Carbon disulfide           | 2.46 | 76  | 33993  | 5.750  | ug/L 97   |
| 15) Methyl Acetate             | 2.60 | 43  | 12087  | 4.708  | ug/L 100  |
| 16) Methylene chloride         | 2.69 | 84  | 12446  | 5.683  | ug/L 96   |
| 17) trans-1,2-Dichloroethene   | 2.96 | 96  | 11176  | 5.534  | ug/L 98   |
| 18) Methyl tert-butyl Ether    | 2.98 | 73  | 33257  | 5.172  | ug/L 98   |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 21830  | 5.688  | ug/L 99   |
| 20) cis-1,2-Dichloroethene     | 4.20 | 96  | 12023  | 5.433  | ug/L 96   |
| 22) 2-Butanone                 | 4.24 | 43  | 21904  | 9.490  | ug/L 93   |
| 23) Bromochloromethane         | 4.53 | 128 | 6332   | 5.530  | ug/L # 97 |
| 25) Chloroform                 | 4.65 | 83  | 23729  | 5.961  | ug/L 100  |
| 27) 1,2-Dichloroethane         | 5.39 | 62  | 17217  | 5.317  | ug/L 99   |
| 29) Cyclohexane                | 4.97 | 56  | 16207  | 4.832  | ug/L 98   |
| 30) 1,1,1-Trichloroethane      | 4.89 | 97  | 19461  | 5.578  | ug/L 98   |
| 31) Carbon tetrachloride       | 5.11 | 117 | 16365  | 5.183  | ug/L 95   |
| 33) Benzene                    | 5.37 | 78  | 46139  | 5.507  | ug/L 100  |
| 34) Trichloroethene            | 6.17 | 95  | 12634  | 5.683  | ug/L 97   |
| 35) Methylcyclohexane          | 6.40 | 83  | 17408  | 5.066  | ug/L 96   |
| 37) 1,2-Dichloropropane        | 6.41 | 63  | 12729m | 5.562  | ug/L      |
| 38) Bromodichloromethane       | 6.74 | 83  | 16175  | 5.286  | ug/L 99   |
| 39) cis-1,3-Dichloropropene    | 7.25 | 75  | 18184  | 5.148  | ug/L 99   |
| 40) 4-Methyl-2-pentanone       | 7.44 | 43  | 30648  | 8.618  | ug/L 96   |

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 Sample : VSTD00532  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00532

Manual Integrations  
 APPROVED

MMDadoda  
 7/15/2019 10:05:43 AM

Quant Time: Jul 12 23:35:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jul 12 23:28:24 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 42) Toluene                    | 7.62  | 91   | 47390    | 5.227 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene  | 7.86  | 75   | 15957    | 4.796 | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane      | 8.05  | 97   | 12126    | 5.681 | ug/L   | 97       |
| 46) Tetrachloroethene          | 8.21  | 164  | 9271     | 5.137 | ug/L   | 95       |
| 48) 2-Hexanone                 | 8.35  | 43   | 25642    | 8.286 | ug/L   | 98       |
| 49) Dibromochloromethane       | 8.46  | 129  | 12879    | 5.079 | ug/L   | 95       |
| 50) 1,2-Dibromoethane          | 8.57  | 107  | 12835    | 5.422 | ug/L   | 96       |
| 51) Chlorobenzene              | 9.10  | 112  | 32709    | 5.492 | ug/L   | 96       |
| 52) Ethylbenzene               | 9.23  | 91   | 47783    | 4.776 | ug/L   | 100      |
| 53) m,p-Xylene                 | 9.36  | 106  | 18587    | 4.916 | ug/L   | 99       |
| 54) o-xylene                   | 9.76  | 106  | 17568    | 4.747 | ug/L   | 97       |
| 55) Styrene                    | 9.78  | 104  | 28803    | 4.501 | ug/L   | 93       |
| 56) Isopropylbenzene           | 10.15 | 105  | 45689    | 4.614 | ug/L   | 98       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 20428    | 5.279 | ug/L   | 97       |
| 59) 1,2,3-Trichloropropane     | 10.48 | 75   | 16503    | 5.411 | ug/L   | 100      |
| 61) Bromoform                  | 9.94  | 173  | 8506     | 4.968 | ug/L # | 96       |
| 62) 1,3-Dichlorobenzene        | 11.40 | 146  | 23102    | 5.589 | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146  | 24976    | 5.836 | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene        | 11.86 | 146  | 24154    | 5.710 | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.64 | 75   | 4366     | 5.455 | ug/L   | 91       |
| 67) 1,3,5-Trichlorobenzene     | 12.87 | 180  | 15592    | 4.751 | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.49 | 180  | 12569    | 4.485 | ug/L   | 98       |
| 69) Naphthalene                | 13.73 | 128  | 35832    | 4.108 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.98 | 180  | 15586    | 5.240 | ug/L   | 90       |

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

