

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081619\  
 Data File : VU033810.D  
 Acq On : 15 Aug 2019 15:03  
 Operator : JC/SP  
 Sample : VSTD01035  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01035

Manual Integrations  
 APPROVED

MMDadoda  
 8/16/2019 8:32:39 AM

Quant Time: Aug 16 02:01:14 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM081619WMA.M

Quant Title : VOC Analysis

QLast Update : Fri Aug 16 01:44:58 2019

Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 361998   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 364980   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 184883   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |       |       |      |      |
|--------------------------------|-------|-----|-------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.39  | 65  | 32926 | 11.86 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.67  | 69  | 27536 | 9.98  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.26  | 63  | 56295 | 12.12 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.16  | 46  | 32473 | 19.54 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.62  | 84  | 52809 | 12.62 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.29  | 65  | 33926 | 12.93 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.32  | 84  | 98617 | 11.07 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.31  | 67  | 33342 | 12.08 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.55  | 98  | 89178 | 10.64 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.84  | 79  | 14605 | 10.67 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.30  | 63  | 19944 | 14.89 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41 | 84  | 45777 | 11.34 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.84 | 152 | 37094 | 11.60 | ug/L | 0.00 |

#### Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 38172  | 13.527 ug/L | 97     |
| 3) Chloromethane               | 1.32 | 50  | 39682  | 13.654 ug/L | 99     |
| 5) Vinyl chloride              | 1.39 | 62  | 43325  | 13.371 ug/L | 99     |
| 6) Bromomethane                | 1.62 | 94  | 27757  | 10.432 ug/L | 100    |
| 8) Chloroethane                | 1.69 | 64  | 27197  | 11.391 ug/L | 93     |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 57713  | 13.267 ug/L | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 28063  | 12.493 ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 26903  | 12.185 ug/L | 96     |
| 13) Acetone                    | 2.31 | 43  | 37992  | 22.675 ug/L | 100    |
| 14) Carbon disulfide           | 2.46 | 76  | 85205  | 13.436 ug/L | 100    |
| 15) Methyl Acetate             | 2.60 | 43  | 30131  | 10.831 ug/L | 95     |
| 16) Methylene chloride         | 2.68 | 84  | 31472  | 12.382 ug/L | 99     |
| 17) trans-1,2-Dichloroethene   | 2.96 | 96  | 27231  | 11.619 ug/L | 99     |
| 18) Methyl tert-butyl Ether    | 2.98 | 73  | 75821  | 10.067 ug/L | 99     |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 54657  | 12.295 ug/L | 98     |
| 20) cis-1,2-Dichloroethene     | 4.20 | 96  | 28334  | 10.656 ug/L | 94     |
| 22) 2-Butanone                 | 4.25 | 43  | 38522  | 18.721 ug/L | 95     |
| 23) Bromochloromethane         | 4.53 | 128 | 16269  | 11.819 ug/L | 97     |
| 25) Chloroform                 | 4.65 | 83  | 57074  | 12.321 ug/L | 100    |
| 27) 1,2-Dichloroethane         | 5.38 | 62  | 42162  | 11.930 ug/L | 99     |
| 29) Cyclohexane                | 4.97 | 56  | 36877  | 9.451 ug/L  | 100    |
| 30) 1,1,1-Trichloroethane      | 4.89 | 97  | 46933  | 11.611 ug/L | 99     |
| 31) Carbon tetrachloride       | 5.11 | 117 | 41988  | 11.518 ug/L | 100    |
| 33) Benzene                    | 5.37 | 78  | 114939 | 11.047 ug/L | 100    |
| 34) Trichloroethene            | 6.17 | 95  | 30723  | 11.208 ug/L | 98     |
| 35) Methylcyclohexane          | 6.40 | 83  | 39890  | 9.620 ug/L  | 96     |
| 37) 1,2-Dichloropropane        | 6.41 | 63  | 32330  | 11.645 ug/L | # 96   |
| 38) Bromodichloromethane       | 6.74 | 83  | 41404  | 11.624 ug/L | 96     |
| 39) cis-1,3-Dichloropropene    | 7.25 | 75  | 42641  | 9.759 ug/L  | 100    |
| 40) 4-Methyl-2-pentanone       | 7.44 | 43  | 67032  | 16.881 ug/L | 98     |

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Quant Time: Aug 16 02:01:14 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM081619WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 16 01:44:58 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) Toluene                    | 7.62  | 91   | 115851   | 10.331 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.86  | 75   | 38352    | 9.873  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 8.05  | 97   | 30112    | 11.201 | ug/L  | 96       |
| 46) Tetrachloroethene          | 8.21  | 164  | 24135    | 10.786 | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.35  | 43   | 50556    | 16.112 | ug/L  | 100      |
| 49) Dibromochloromethane       | 8.46  | 129  | 32713    | 10.818 | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.57  | 107  | 30580    | 10.335 | ug/L  | 94       |
| 51) Chlorobenzene              | 9.10  | 112  | 79964    | 10.903 | ug/L  | 99       |
| 52) Ethylbenzene               | 9.23  | 91   | 117816   | 9.665  | ug/L  | 98       |
| 53) m,p-Xylene                 | 9.36  | 106  | 43802    | 9.424  | ug/L  | 97       |
| 54) o-xylene                   | 9.76  | 106  | 40427    | 8.811  | ug/L  | 96       |
| 55) Styrene                    | 9.77  | 104  | 69295    | 8.958  | ug/L  | 94       |
| 56) Isopropylbenzene           | 10.15 | 105  | 109410   | 9.118  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 47273    | 10.136 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 10.48 | 75   | 38104    | 10.294 | ug/L  | 98       |
| 61) Bromoform                  | 9.94  | 173  | 24000    | 10.708 | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.40 | 146  | 60566    | 10.658 | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.49 | 146  | 62649    | 10.875 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.86 | 146  | 60116    | 10.699 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.65 | 75   | 9941     | 9.630  | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene     | 12.87 | 180  | 44622    | 9.965  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.49 | 180  | 32927m   | 8.271  | ug/L  |          |
| 69) Naphthalene                | 13.73 | 128  | 75946    | 6.428  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.98 | 180  | 34663    | 8.306  | ug/L  | 100      |

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

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