

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW041719\  
 Data File : VW010011.D  
 Acq On : 17 Apr 2019 10:55  
 Operator : SY/VA  
 Sample : VSTDIC005  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

MMDadoda  
 4/18/2019 11:39:56 AM

Quant Time: Apr 18 01:56:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W041719S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 18 01:42:18 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 338359   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 553347   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 505694   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 252925   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |      |       |      |
|---------------------------|--------|-----|----------|------|-------|------|
| 33) 1,2-Dichloroethane-d4 | 8.30   | 65  | 17184    | 4.12 | ug/l  | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 8.24% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 15656    | 4.45 | ug/l  | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 8.90% |      |
| 50) Toluene-d8            | 10.32  | 98  | 47595    | 3.61 | ug/l  | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 7.22% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 18524    | 3.87 | ug/l  | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 7.74% |      |

## Target Compounds

|                               |      |     |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 11258m | 4.438  | ug/l   |
| 3) Chloromethane              | 2.21 | 50  | 9454   | 3.664  | ug/l   |
| 4) Vinyl Chloride             | 2.37 | 62  | 11027  | 3.677  | ug/l   |
| 5) Bromomethane               | 2.78 | 94  | 8181   | 4.059  | ug/l   |
| 6) Chloroethane               | 2.92 | 64  | 8114   | 4.141  | ug/l # |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 8279   | 3.993  | ug/l   |
| 8) Diethyl Ether              | 3.68 | 74  | 8327   | 4.828  | ug/l   |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 17023m | 5.009  | ug/l   |
| 10) Methyl Iodide             | 4.26 | 142 | 20304  | 4.211  | ug/l   |
| 11) Tert butyl alcohol        | 5.18 | 59  | 5906m  | 24.904 | ug/l   |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 14606  | 4.367  | ug/l   |
| 13) Acrolein                  | 3.88 | 56  | 7270   | 29.055 | ug/l   |
| 14) Allyl chloride            | 4.67 | 41  | 25892  | 4.354  | ug/l   |
| 15) Acrylonitrile             | 5.37 | 53  | 20286  | 22.854 | ug/l   |
| 16) Acetone                   | 4.12 | 43  | 24659  | 25.453 | ug/l   |
| 17) Carbon Disulfide          | 4.37 | 76  | 25943  | 2.827  | ug/l   |
| 18) Methyl Acetate            | 4.67 | 43  | 13718  | 6.118  | ug/l # |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 19728  | 4.541  | ug/l   |
| 20) Methylene Chloride        | 4.92 | 84  | 31174  | 6.994  | ug/l # |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 14896  | 4.112  | ug/l   |
| 22) Diisopropyl ether         | 6.31 | 45  | 50556  | 4.191  | ug/l   |
| 23) Vinyl Acetate             | 6.25 | 43  | 136769 | 18.011 | ug/l   |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 33767  | 4.683  | ug/l # |
| 25) 2-Butanone                | 7.17 | 43  | 26934  | 21.164 | ug/l   |
| 26) 2,2-Dichloropropane       | 7.16 | 77  | 19573  | 4.906  | ug/l   |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 17676  | 4.437  | ug/l   |
| 28) Bromochloromethane        | 7.51 | 49  | 13904  | 4.718  | ug/l # |
| 29) Tetrahydrofuran           | 7.52 | 42  | 16311  | 20.227 | ug/l   |
| 30) Chloroform                | 7.67 | 83  | 34380  | 4.758  | ug/l   |
| 31) Cyclohexane               | 7.95 | 56  | 31875  | 4.720  | ug/l # |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 26994  | 4.759  | ug/l   |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 23948  | 4.237  | ug/l   |
| 37) Ethyl Acetate             | 7.25 | 43  | 13114  | 4.566  | ug/l   |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 24908  | 4.515  | ug/l   |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 22442    | 3.528  | ug/l   | 96       |
| 40) Benzene                    | 8.32  | 78   | 68200    | 4.413  | ug/l   | 95       |
| 41) Methacrylonitrile          | 7.49  | 41   | 6278     | 3.835  | ug/l # | 93       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 25049    | 4.716  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 22915    | 4.258  | ug/l   | 97       |
| 44) Trichloroethene            | 9.09  | 130  | 17269    | 4.399  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 18625    | 4.585  | ug/l   | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 9802     | 4.655  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 23960    | 4.408  | ug/l   | 95       |
| 48) Methyl methacrylate        | 9.44  | 41   | 11384    | 4.345  | ug/l   | 93       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 2613     | 81.220 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 58937    | 20.907 | ug/l   | 96       |
| 52) Toluene                    | 10.39 | 92   | 39616    | 4.115  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 22290    | 4.136  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 25508    | 4.145  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 13549    | 4.610  | ug/l   | 93       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 12630    | 3.457  | ug/l   | 93       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 24330    | 4.619  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 36924    | 21.027 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.97 | 43   | 37692    | 19.208 | ug/l   | 95       |
| 60) Dibromochloromethane       | 11.13 | 129  | 14778    | 4.351  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 12689    | 4.539  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.86 | 164  | 14936    | 4.550  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 48577    | 4.693  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 17135    | 4.629  | ug/l   | 95       |
| 67) Ethyl Benzene              | 11.73 | 91   | 78146    | 4.232  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.84 | 106  | 57290    | 8.299  | ug/l   | 98       |
| 69) o-Xylene                   | 12.17 | 106  | 24970    | 3.973  | ug/l   | 95       |
| 70) Styrene                    | 12.18 | 104  | 41662    | 3.844  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 8997     | 4.597  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.47 | 105  | 71581    | 4.066  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 18146    | 3.722  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 16967    | 4.879  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 11655m   | 3.844  | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 18035    | 4.455  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.80 | 91   | 90453    | 4.146  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 55943    | 4.459  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 60838    | 4.076  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 4252     | 3.961  | ug/l   | 89       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 57708    | 4.370  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 50475    | 4.084  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 62060    | 4.101  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.39 | 105  | 79947    | 4.328  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 65418    | 4.018  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 38926    | 4.756  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 40580    | 4.968  | ug/l   | 91       |
| 89) n-Butylbenzene             | 13.83 | 91   | 66103    | 4.098  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 14210    | 4.557  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 34781    | 4.740  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 2922     | 4.695  | ug/l   | 93       |

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Quant Title : SW846 8260  
QLast Update : Thu Apr 18 01:42:18 2019  
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|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 21671    | 4.477 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 14085    | 4.791 | ug/l  | 99       |
| 95) Naphthalene            | 15.37 | 128  | 31859    | 3.666 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 18410    | 4.383 | ug/l  | 96       |

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

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