

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111819\  
 Data File : VY000720.D  
 Acq On : 18 Nov 2019 12:44  
 Operator : SY/MD  
 Sample : VY1118SBS01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1118SBS01

Manual Integrations  
 APPROVED

MMDADODA  
 11/19/2019 12:21:36 PM

Quant Time: Nov 18 13:42:18 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y103019S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 30 13:30:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 220430   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 375530   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 333586   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 166511   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min)           |
|-----------------------------|-------|------|----------|-------|-------|--------------------|
| 33) 1,2-Dichloroethane-d4   | 8.15  | 65   | 122209   | 53.57 | ug/l  | 0.00               |
| Spiked Amount               |       |      |          |       |       |                    |
|                             |       |      |          |       |       | Recovery = 107.14% |
| 35) Dibromofluoromethane    | 7.72  | 113  | 107715   | 48.86 | ug/l  | 0.00               |
| Spiked Amount               |       |      |          |       |       |                    |
|                             |       |      |          |       |       | Recovery = 97.72%  |
| 50) Toluene-d8              | 10.18 | 98   | 437045   | 52.25 | ug/l  | 0.00               |
| Spiked Amount               |       |      |          |       |       |                    |
|                             |       |      |          |       |       | Recovery = 104.50% |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 155003   | 48.67 | ug/l  | 0.00               |
| Spiked Amount               |       |      |          |       |       |                    |
|                             |       |      |          |       |       | Recovery = 97.34%  |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.90 | 85   | 41303    | 19.035  | ug/l   | 98     |
| 3) Chloromethane              | 2.11 | 50   | 56624    | 18.943  | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.25 | 62   | 54169    | 19.515  | ug/l   | 95     |
| 5) Bromomethane               | 2.64 | 94   | 41179    | 24.739  | ug/l   | 92     |
| 6) Chloroethane               | 2.79 | 64   | 36744    | 21.150  | ug/l # | 88     |
| 7) Trichlorofluoromethane     | 3.12 | 101  | 80960    | 21.597  | ug/l   | 95     |
| 8) Diethyl Ether              | 3.53 | 74   | 29070    | 21.824  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.90 | 101  | 47111    | 20.787  | ug/l   | 97     |
| 10) Methyl Iodide             | 4.10 | 142  | 45634    | 17.518  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.97 | 59   | 21923    | 98.727  | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 3.87 | 96   | 46591    | 21.160  | ug/l   | 87     |
| 13) Acrolein                  | 3.73 | 56   | 15864    | 82.017  | ug/l   | 98     |
| 14) Allyl chloride            | 4.49 | 41   | 79368    | 22.168  | ug/l   | 96     |
| 15) Acrylonitrile             | 5.18 | 53   | 73010    | 107.000 | ug/l   | 99     |
| 16) Acetone                   | 3.96 | 43   | 55043    | 87.548  | ug/l   | 91     |
| 17) Carbon Disulfide          | 4.19 | 76   | 135474   | 19.508  | ug/l   | 97     |
| 18) Methyl Acetate            | 4.48 | 43   | 39597    | 20.255  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 5.22 | 73   | 131977   | 21.558  | ug/l   | 98     |
| 20) Methylene Chloride        | 4.72 | 84   | 55653    | 20.658  | ug/l   | 94     |
| 21) trans-1,2-Dichloroethene  | 5.22 | 96   | 53768    | 21.600  | ug/l   | 97     |
| 22) Diisopropyl ether         | 6.13 | 45   | 172745   | 22.198  | ug/l   | 92     |
| 23) Vinyl Acetate             | 6.07 | 43   | 542287   | 110.391 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.02 | 63   | 92644    | 21.975  | ug/l   | 97     |
| 25) 2-Butanone                | 7.00 | 43   | 96550    | 96.224  | ug/l   | 94     |
| 26) 2,2-Dichloropropane       | 6.99 | 77   | 82773    | 21.484  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.99 | 96   | 59087    | 21.708  | ug/l   | 98     |
| 28) Bromochloromethane        | 7.34 | 49   | 22687    | 14.926  | ug/l   | 97     |
| 29) Tetrahydrofuran           | 7.35 | 42   | 64048    | 104.341 | ug/l   | 100    |
| 30) Chloroform                | 7.52 | 83   | 95961    | 22.501  | ug/l   | 96     |
| 31) Cyclohexane               | 7.78 | 56   | 91928    | 20.819  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 7.71 | 97   | 81378    | 21.410  | ug/l   | 100    |
| 36) 1,1-Dichloropropene       | 7.92 | 75   | 74013    | 20.848  | ug/l   | 100    |
| 37) Ethyl Acetate             | 7.08 | 43   | 44354    | 21.044  | ug/l   | 100    |
| 38) Carbon Tetrachloride      | 7.91 | 117  | 70372    | 20.601  | ug/l   | 96     |

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Quant Time: Nov 18 13:42:18 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y103019S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 30 13:30:53 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.19  | 83   | 90507    | 19.734  | ug/l   | 95       |
| 40) Benzene                    | 8.17  | 78   | 217084   | 20.857  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.33  | 41   | 25566m   | 21.744  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.24  | 62   | 62181    | 21.064  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.28  | 43   | 83923    | 21.196  | ug/l   | 99       |
| 44) Trichloroethene            | 8.94  | 130  | 57576    | 20.981  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 9.22  | 63   | 53018    | 20.697  | ug/l   | 100      |
| 46) Dibromomethane             | 9.31  | 93   | 29614    | 21.021  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.50  | 83   | 70948    | 21.224  | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.30  | 41   | 36093    | 20.864  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.30  | 88   | 7647     | 403.320 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 10.07 | 43   | 220670   | 104.828 | ug/l   | 99       |
| 52) Toluene                    | 10.25 | 92   | 137579   | 20.908  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 74647    | 20.899  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 9.93  | 75   | 87340    | 21.345  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.64 | 97   | 41633    | 20.432  | ug/l   | 94       |
| 56) Ethyl methacrylate         | 10.51 | 69   | 60457    | 20.934  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.79 | 76   | 74758    | 20.962  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.78  | 63   | 134451   | 102.977 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.83 | 43   | 150592   | 98.186  | ug/l   | 98       |
| 60) Dibromochloromethane       | 10.99 | 129  | 47103    | 20.182  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.09 | 107  | 40978    | 20.916  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.72 | 164  | 57399    | 20.809  | ug/l   | 95       |
| 65) Chlorobenzene              | 11.52 | 112  | 143200   | 21.173  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.59 | 131  | 47189    | 20.118  | ug/l   | 96       |
| 67) Ethyl Benzene              | 11.59 | 91   | 264354   | 21.237  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.70 | 106  | 201171   | 41.757  | ug/l   | 97       |
| 69) o-Xylene                   | 12.03 | 106  | 94859    | 20.950  | ug/l   | 100      |
| 70) Styrene                    | 12.04 | 104  | 159254   | 20.540  | ug/l   | 99       |
| 71) Bromoform                  | 12.20 | 173  | 28278    | 20.960  | ug/l # | 96       |
| 73) Isopropylbenzene           | 12.33 | 105  | 252117   | 20.487  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.14 | 43   | 72501    | 20.570  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 50921    | 20.898  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 36791m   | 19.405  | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 56484    | 20.240  | ug/l   | 96       |
| 78) n-propylbenzene            | 12.67 | 91   | 312044   | 21.015  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 173295   | 21.022  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 212440   | 20.727  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 17198    | 20.338  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 12.85 | 91   | 176626   | 20.670  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.07 | 119  | 186234   | 21.281  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 217468   | 21.310  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.25 | 105  | 262891   | 21.085  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.37 | 119  | 233794   | 21.039  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.36 | 146  | 114168   | 20.886  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.44 | 146  | 112867   | 20.663  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.69 | 91   | 231491   | 21.121  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.95 | 117  | 42380    | 20.630  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.73 | 146  | 102583   | 20.684  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 8432     | 19.553  | ug/l   | 99       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.00 | 180  | 69684    | 20.635 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.11 | 225  | 35411    | 20.343 | ug/l  | 97       |
| 95) Naphthalene            | 15.23 | 128  | 155235   | 20.708 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.42 | 180  | 65126    | 21.496 | ug/l  | 99       |

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

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