

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY091219\  
 Data File : VY000019.D  
 Acq On : 12 Sep 2019 11:32  
 Operator : SY/MD  
 Sample : VSTDIC010  
 Misc : 5.00g/5.00ml  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC010

Manual Integrations  
 APPROVED

MMDadoda  
 9/13/2019 11:53:50 PM

Quant Time: Sep 12 15:45:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y091219S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 12 15:35:32 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.79  | 168  | 141700   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 266096   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 229798   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 99619    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.14   | 65  | 16721    | 10.95 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 21.90% |      |
| 35) Dibromofluoromethane  | 7.72   | 113 | 16835    | 11.03 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 22.06% |      |
| 50) Toluene-d8            | 10.18  | 98  | 63095    | 10.27 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 20.54% |      |
| 62) 4-Bromofluorobenzene  | 12.48  | 95  | 24514    | 10.97 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 21.94% |      |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.90 | 85  | 11389  | 10.899 | ug/l   | 91     |
| 3) Chloromethane              | 2.11 | 50  | 20170  | 11.866 | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.25 | 62  | 16153  | 10.194 | ug/l   | 94     |
| 5) Bromomethane               | 2.63 | 94  | 11407  | 11.326 | ug/l   | 86     |
| 6) Chloroethane               | 2.78 | 64  | 10160  | 9.631  | ug/l   | 91     |
| 7) Trichlorofluoromethane     | 3.12 | 101 | 21945  | 10.658 | ug/l   | 99     |
| 8) Diethyl Ether              | 3.53 | 74  | 8813   | 10.415 | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.89 | 101 | 15106  | 10.781 | ug/l   | 98     |
| 10) Methyl Iodide             | 4.09 | 142 | 13983  | 9.126  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 4.98 | 59  | 10453  | 53.865 | ug/l # | 83     |
| 12) 1,1-Dichloroethene        | 3.87 | 96  | 13893  | 10.639 | ug/l   | 94     |
| 13) Acrolein                  | 3.73 | 56  | 9082   | 62.383 | ug/l   | 98     |
| 14) Allyl chloride            | 4.48 | 41  | 22364  | 11.030 | ug/l   | 96     |
| 15) Acrylonitrile             | 5.17 | 53  | 27699  | 51.593 | ug/l   | 99     |
| 16) Acetone                   | 3.95 | 43  | 23278  | 55.003 | ug/l # | 85     |
| 17) Carbon Disulfide          | 4.19 | 76  | 25724  | 9.782  | ug/l   | 96     |
| 18) Methyl Acetate            | 4.48 | 43  | 11685  | 9.812  | ug/l   | 100    |
| 19) Methyl tert-butyl Ether   | 5.22 | 73  | 41153  | 10.405 | ug/l   | 92     |
| 20) Methylene Chloride        | 4.71 | 84  | 17836  | 10.571 | ug/l # | 90     |
| 21) trans-1,2-Dichloroethene  | 5.22 | 96  | 15186  | 10.503 | ug/l # | 82     |
| 22) Diisopropyl ether         | 6.13 | 45  | 45395  | 10.142 | ug/l   | 94     |
| 23) Vinyl Acetate             | 6.06 | 43  | 155264 | 50.144 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.02 | 63  | 27248  | 10.273 | ug/l   | 95     |
| 25) 2-Butanone                | 6.99 | 43  | 34862  | 50.677 | ug/l   | 90     |
| 26) 2,2-Dichloropropane       | 6.98 | 77  | 26305  | 10.676 | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 6.98 | 96  | 18438  | 10.107 | ug/l   | 90     |
| 28) Bromochloromethane        | 7.34 | 49  | 11541  | 9.475  | ug/l # | 100    |
| 29) Tetrahydrofuran           | 7.36 | 42  | 20783  | 50.786 | ug/l   | 98     |
| 30) Chloroform                | 7.51 | 83  | 29384  | 10.743 | ug/l   | 98     |
| 31) Cyclohexane               | 7.78 | 56  | 23806  | 10.769 | ug/l # | 81     |
| 32) 1,1,1-Trichloroethane     | 7.71 | 97  | 23680  | 10.554 | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 7.92 | 75  | 21370  | 10.938 | ug/l   | 98     |
| 37) Ethyl Acetate             | 7.08 | 43  | 11764  | 8.929  | ug/l # | 91     |
| 38) Carbon Tetrachloride      | 7.90 | 117 | 19008  | 10.307 | ug/l   | 93     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY091219\  
 Data File : VY000019.D  
 Acq On : 12 Sep 2019 11:32  
 Operator : SY/MD  
 Sample : VSTDIC010  
 Misc : 5.00g/5.00ml  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC010

Manual Integrations  
 APPROVED

MMDadoda  
 9/13/2019 11:53:50 PM

Quant Time: Sep 12 15:45:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y091219S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 12 15:35:32 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.18  | 83   | 24439    | 10.125  | ug/l   | 94       |
| 40) Benzene                    | 8.16  | 78   | 64615    | 10.158  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.32  | 41   | 8184     | 4.783   | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 8.24  | 62   | 15922    | 9.795   | ug/l   | 95       |
| 43) Isopropyl Acetate          | 8.27  | 43   | 25645    | 10.045  | ug/l # | 91       |
| 44) Trichloroethene            | 8.94  | 130  | 16081    | 10.125  | ug/l   | 90       |
| 45) 1,2-Dichloropropane        | 9.21  | 63   | 16651    | 10.152  | ug/l   | 94       |
| 46) Dibromomethane             | 9.31  | 93   | 9357     | 10.280  | ug/l   | 92       |
| 47) Bromodichloromethane       | 9.50  | 83   | 22357    | 10.289  | ug/l # | 88       |
| 48) Methyl methacrylate        | 9.29  | 41   | 10388    | 9.221   | ug/l   | 89       |
| 49) 1,4-Dioxane                | 9.29  | 88   | 4155     | 217.964 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.07 | 43   | 69964    | 48.907  | ug/l   | 98       |
| 52) Toluene                    | 10.24 | 92   | 40712    | 10.186  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.46 | 75   | 22721    | 9.945   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.93  | 75   | 26397    | 9.930   | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 10.65 | 97   | 14596    | 10.119  | ug/l   | 90       |
| 56) Ethyl methacrylate         | 10.51 | 69   | 19686    | 9.724   | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.79 | 76   | 23498    | 10.186  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.78  | 63   | 53229    | 48.001  | ug/l   | 97       |
| 59) 2-Hexanone                 | 10.83 | 43   | 51210    | 49.675  | ug/l   | 97       |
| 60) Dibromochloromethane       | 10.98 | 129  | 14919    | 9.816   | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.09 | 107  | 13031    | 10.228  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.72 | 164  | 14525    | 10.307  | ug/l   | 91       |
| 65) Chlorobenzene              | 11.51 | 112  | 44199    | 10.094  | ug/l   | 92       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.59 | 131  | 15111    | 9.960   | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.59 | 91   | 80920    | 10.172  | ug/l   | 96       |
| 68) m/p-Xylenes                | 11.70 | 106  | 59849    | 19.938  | ug/l   | 99       |
| 69) o-Xylene                   | 12.02 | 106  | 29637    | 10.074  | ug/l   | 96       |
| 70) Styrene                    | 12.04 | 104  | 50698    | 9.906   | ug/l   | 99       |
| 71) Bromoform                  | 12.20 | 173  | 9467     | 10.334  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.32 | 105  | 78315    | 10.289  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.14 | 43   | 20309    | 9.039   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 18617    | 10.230  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 12928m   | 5.851   | ug/l   |          |
| 77) Bromobenzene               | 12.60 | 156  | 15885    | 9.866   | ug/l   | 91       |
| 78) n-propylbenzene            | 12.66 | 91   | 93814    | 10.085  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 50190    | 9.649   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.80 | 105  | 64805    | 10.197  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.37 | 75   | 6589     | 9.446   | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.85 | 91   | 55337    | 10.137  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.07 | 119  | 55852    | 10.228  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 63501    | 10.115  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.25 | 105  | 82225    | 10.203  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.36 | 119  | 71018    | 10.388  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.36 | 146  | 32345    | 9.981   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.44 | 146  | 32808    | 10.061  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.69 | 91   | 70342    | 10.153  | ug/l   | 98       |
| 90) Hexachloroethane           | 13.95 | 117  | 14231    | 10.416  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene        | 13.73 | 146  | 29939    | 9.928   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.35 | 75   | 3867     | 10.928  | ug/l   | 85       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY091219\  
Data File : VY000019.D  
Acq On : 12 Sep 2019 11:32  
Operator : SY/MD  
Sample : VSTDICC010  
Misc : 5.00g/5.00ml  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC010

Manual Integrations  
APPROVED

MMDadoda  
9/13/2019 11:53:50 PM

Quant Time: Sep 12 15:45:31 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y091219S.M  
Quant Title : SW846 8260  
QLast Update : Thu Sep 12 15:35:32 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.00 | 180  | 18812    | 9.776  | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 15.11 | 225  | 8483     | 9.611  | ug/l  | 94       |
| 95) Naphthalene            | 15.22 | 128  | 53152    | 10.096 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.41 | 180  | 17768    | 10.286 | ug/l  | 97       |

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

