

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY101019\  
 Data File : VY000261.D  
 Acq On : 10 Oct 2019 18:14  
 Operator : SY/MD  
 Sample : 2.5PPBMDL  
 Misc : 5.0ml/MSVOA Y/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 2.5PPBMDL

Manual Integrations  
 APPROVED

MMDadoda  
 10/14/2019 1:34:08 PM

Quant Time: Oct 11 07:25:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y100819W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 11 07:12:00 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 244228   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 409759   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 350455   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 160022   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.15   | 65  | 157826   | 50.24 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.48% |      |
| 35) Dibromofluoromethane  | 7.73   | 113 | 125873   | 49.30 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.60%  |      |
| 50) Toluene-d8            | 10.19  | 98  | 465541   | 46.42 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.84%  |      |
| 62) 4-Bromofluorobenzene  | 12.48  | 95  | 158937   | 44.90 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.80%  |      |

## Target Compounds

|                               |      |     |        |        | Qvalue    |
|-------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane    | 1.90 | 85  | 5473   | 2.245  | ug/l 98   |
| 3) Chloromethane              | 2.11 | 50  | 7218   | 2.174  | ug/l 99   |
| 4) Vinyl Chloride             | 2.25 | 62  | 7751   | 2.261  | ug/l # 88 |
| 5) Bromomethane               | 2.64 | 94  | 7538   | 3.485  | ug/l 82   |
| 6) Chloroethane               | 2.79 | 64  | 4987   | 2.303  | ug/l 91   |
| 7) Trichlorofluoromethane     | 3.11 | 101 | 9388   | 2.119  | ug/l 89   |
| 8) Diethyl Ether              | 3.52 | 74  | 4853   | 2.396  | ug/l 96   |
| 9) 1,1,2-Trichlorotrifluoroet | 3.90 | 101 | 5412   | 2.092  | ug/l 94   |
| 10) Methyl Iodide             | 4.09 | 142 | 5901   | 1.547  | ug/l # 78 |
| 11) Tert butyl alcohol        | 4.97 | 59  | 28152  | 16.497 | ug/l 97   |
| 12) 1,1-Dichloroethene        | 3.88 | 96  | 6555   | 2.441  | ug/l # 89 |
| 13) Acrolein                  | 3.73 | 56  | 11837  | 13.214 | ug/l 92   |
| 14) Allyl chloride            | 4.48 | 41  | 10466  | 2.313  | ug/l 94   |
| 15) Acrylonitrile             | 5.17 | 53  | 36168  | 12.006 | ug/l 99   |
| 16) Acetone                   | 3.96 | 43  | 35911  | 14.435 | ug/l 98   |
| 17) Carbon Disulfide          | 4.20 | 76  | 15364  | 1.941  | ug/l # 86 |
| 18) Methyl Acetate            | 4.49 | 43  | 17558  | 2.575  | ug/l 98   |
| 19) Methyl tert-butyl Ether   | 5.24 | 73  | 23989  | 2.442  | ug/l # 79 |
| 20) Methylene Chloride        | 4.73 | 84  | 8224   | 2.516  | ug/l 93   |
| 21) trans-1,2-Dichloroethene  | 5.24 | 96  | 7259   | 2.403  | ug/l # 71 |
| 22) Diisopropyl ether         | 6.14 | 45  | 23966  | 2.286  | ug/l # 92 |
| 23) Vinyl Acetate             | 6.07 | 43  | 103802 | 10.933 | ug/l 99   |
| 24) 1,1-Dichloroethane        | 6.03 | 63  | 12366  | 2.313  | ug/l 97   |
| 25) 2-Butanone                | 7.00 | 43  | 56430  | 12.261 | ug/l 97   |
| 26) 2,2-Dichloropropane       | 6.99 | 77  | 11452  | 2.373  | ug/l 95   |
| 27) cis-1,2-Dichloroethene    | 7.00 | 96  | 7892   | 2.218  | ug/l 95   |
| 28) Bromochloromethane        | 7.34 | 49  | 5328   | 3.027  | ug/l # 99 |
| 29) Tetrahydrofuran           | 7.36 | 42  | 36494  | 11.228 | ug/l 94   |
| 30) Chloroform                | 7.53 | 83  | 13736  | 2.475  | ug/l 85   |
| 31) Cyclohexane               | 7.80 | 56  | 14973  | 2.772  | ug/l # 65 |
| 32) 1,1,1-Trichloroethane     | 7.72 | 97  | 11046  | 2.341  | ug/l 97   |
| 36) 1,1-Dichloropropene       | 7.93 | 75  | 9111   | 2.185  | ug/l 94   |
| 37) Ethyl Acetate             | 7.09 | 43  | 17053  | 2.263  | ug/l 96   |
| 38) Carbon Tetrachloride      | 7.91 | 117 | 9893   | 2.435  | ug/l # 70 |

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 Quant Title : SW846 8260  
 QLast Update : Fri Oct 11 07:12:00 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 9.19  | 83   | 10458    | 1.999  | ug/l   | 95       |
| 40) Benzene                    | 8.17  | 78   | 29901    | 2.364  | ug/l   | 95       |
| 41) Methacrylonitrile          | 7.35  | 41   | 11634m   | 1.961  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.25  | 62   | 11229    | 2.733  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.28  | 43   | 21716    | 2.238  | ug/l   | 97       |
| 44) Trichloroethene            | 8.95  | 130  | 7967     | 2.323  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.22  | 63   | 7646     | 2.414  | ug/l   | 98       |
| 46) Dibromomethane             | 9.32  | 93   | 5494     | 2.474  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.50  | 83   | 10099    | 2.325  | ug/l # | 80       |
| 48) Methyl methacrylate        | 9.30  | 41   | 10164    | 2.321  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.30  | 88   | 5591     | 49.738 | ug/l # | 92       |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 88302    | 12.111 | ug/l   | 96       |
| 52) Toluene                    | 10.25 | 92   | 17268    | 2.129  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 10705    | 2.172  | ug/l   | 93       |
| 54) cis-1,3-Dichloropropene    | 9.93  | 75   | 11890    | 2.230  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 10.65 | 97   | 7345     | 2.296  | ug/l   | 92       |
| 56) Ethyl methacrylate         | 10.52 | 69   | 12033    | 2.137  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.80 | 76   | 13490    | 2.470  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether  | 9.79  | 63   | 29286    | 11.667 | ug/l   | 97       |
| 59) 2-Hexanone                 | 10.84 | 43   | 70545    | 11.416 | ug/l   | 98       |
| 60) Dibromochloromethane       | 10.99 | 129  | 7699     | 2.277  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.10 | 107  | 7909     | 2.328  | ug/l   | 96       |
| 64) Tetrachloroethene          | 10.72 | 164  | 9048     | 2.825  | ug/l   | 86       |
| 65) Chlorobenzene              | 11.52 | 112  | 19665    | 2.421  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.59 | 131  | 6931     | 2.387  | ug/l   | 96       |
| 67) Ethyl Benzene              | 11.60 | 91   | 32734    | 2.255  | ug/l   | 93       |
| 68) m/p-Xylenes                | 11.70 | 106  | 24895    | 4.494  | ug/l   | 96       |
| 69) o-Xylene                   | 12.03 | 106  | 13347    | 2.501  | ug/l   | 87       |
| 70) Styrene                    | 12.05 | 104  | 20524    | 2.233  | ug/l   | 98       |
| 71) Bromoform                  | 12.20 | 173  | 5716     | 2.386  | ug/l # | 94       |
| 73) Isopropylbenzene           | 12.33 | 105  | 31373    | 2.314  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.14 | 43   | 13547    | 2.098  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 11447    | 2.474  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 10894m   | 2.579  | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 8137     | 2.559  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.67 | 91   | 34038    | 2.149  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 21293    | 2.335  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 25289    | 2.235  | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 4020     | 1.963  | ug/l # | 84       |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 21291    | 2.305  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.08 | 119  | 23242    | 2.363  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 24658    | 2.181  | ug/l   | 95       |
| 85) sec-Butylbenzene           | 13.25 | 105  | 29637    | 2.186  | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 13.37 | 119  | 25898    | 2.173  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.37 | 146  | 14594    | 2.532  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene        | 13.45 | 146  | 14448    | 2.407  | ug/l   | 85       |
| 89) n-Butylbenzene             | 13.70 | 91   | 22886    | 2.037  | ug/l   | 98       |
| 90) Hexachloroethane           | 13.96 | 117  | 4944     | 2.193  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 14431    | 2.474  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 3444     | 2.383  | ug/l   | 95       |

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QLast Update : Fri Oct 11 07:12:00 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.01 | 180  | 9105     | 2.299 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 15.11 | 225  | 4022     | 2.125 | ug/l  | 93       |
| 95) Naphthalene            | 15.23 | 128  | 34705    | 2.329 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.42 | 180  | 9428     | 2.475 | ug/l  | 99       |

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

