

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012619\  
 Data File : VX007232.D  
 Acq On : 25 Jan 2019 16:42  
 Operator : JC/SP  
 Sample : VX0126WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0126WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 1/28/2019 12:01:41 PM

Quant Time: Jan 28 00:35:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 08 14:06:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 476974   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 713986   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 640743   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 324231   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 248667   | 49.89 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.78% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 223780   | 48.94 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.88% |      |
| 50) Toluene-d8            | 8.71   | 98  | 817323   | 48.84 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.68% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 288832   | 49.50 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.00% |      |

## Target Compounds

|                               |      |     |         |        |      | Qvalue |
|-------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 65990   | 16.848 | ug/l | 96     |
| 3) Chloromethane              | 1.33 | 50  | 77907   | 17.086 | ug/l | 99     |
| 4) Vinyl Chloride             | 1.41 | 62  | 85415   | 17.414 | ug/l | 100    |
| 5) Bromomethane               | 1.64 | 94  | 87071   | 16.615 | ug/l | 96     |
| 6) Chloroethane               | 1.73 | 64  | 56723   | 16.562 | ug/l | 100    |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 142632  | 17.997 | ug/l | 98     |
| 8) Diethyl Ether              | 2.19 | 74  | 57108   | 18.112 | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 85036   | 17.922 | ug/l | 98     |
| 10) Methyl Iodide             | 2.51 | 142 | 121979  | 19.058 | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.07 | 59  | 115795  | 98.475 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 2.38 | 96  | 77576   | 17.696 | ug/l | 99     |
| 13) Acrolein                  | 2.30 | 56  | 48148   | 96.854 | ug/l | 97     |
| 14) Allyl chloride            | 2.73 | 41  | 137486  | 18.300 | ug/l | 99     |
| 15) Acrylonitrile             | 3.15 | 53  | 264537  | 97.999 | ug/l | 98     |
| 16) Acetone                   | 2.45 | 43  | 237029  | 96.184 | ug/l | 98     |
| 17) Carbon Disulfide          | 2.57 | 76  | 160296  | 14.203 | ug/l | 96     |
| 18) Methyl Acetate            | 2.78 | 43  | 150866  | 21.140 | ug/l | 97     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 295033  | 19.390 | ug/l | 99     |
| 20) Methylene Chloride        | 2.86 | 84  | 93717   | 19.651 | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 83625   | 17.118 | ug/l | 98     |
| 22) Diisopropyl ether         | 3.87 | 45  | 271014  | 19.188 | ug/l | 93     |
| 23) Vinyl Acetate             | 3.82 | 43  | 1092310 | 91.704 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 151410  | 19.171 | ug/l | 99     |
| 25) 2-Butanone                | 4.70 | 43  | 349163  | 99.023 | ug/l | 95     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 105888  | 17.436 | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 98156   | 18.216 | ug/l | 98     |
| 28) Bromochloromethane        | 5.02 | 49  | 71385   | 20.630 | ug/l | 94     |
| 29) Tetrahydrofuran           | 5.15 | 42  | 219414  | 95.751 | ug/l | 98     |
| 30) Chloroform                | 5.22 | 83  | 157234  | 19.015 | ug/l | 98     |
| 31) Cyclohexane               | 5.57 | 56  | 118795  | 16.900 | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97  | 128459  | 18.328 | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 106610  | 17.174 | ug/l | 99     |
| 37) Ethyl Acetate             | 4.85 | 43  | 127532  | 19.163 | ug/l | 98     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 109894  | 17.596 | ug/l | 96     |

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 Operator : JC/SP  
 Sample : VX0126WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0126WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 1/28/2019 12:01:41 PM

Quant Time: Jan 28 00:35:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 08 14:06:59 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 129038   | 16.306  | ug/l   | 93       |
| 40) Benzene                    | 6.14  | 78   | 344301   | 18.178  | ug/l   | 98       |
| 41) Methacrylonitrile          | 5.06  | 41   | 68736    | 17.929  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 120996   | 18.486  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.46  | 43   | 196281   | 18.698  | ug/l   | 97       |
| 44) Trichloroethene            | 7.21  | 130  | 98801    | 17.407  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 89815    | 18.861  | ug/l   | 99       |
| 46) Dibromomethane             | 7.66  | 93   | 62791    | 18.762  | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.90  | 83   | 104841   | 18.405  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.77  | 41   | 100747   | 18.689  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 7.75  | 88   | 49409    | 396.160 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 687454   | 101.902 | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 220745   | 18.132  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 111790   | 17.698  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 8.44  | 75   | 127621   | 18.295  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 99514    | 20.422  | ug/l   | 100      |
| 56) Ethyl methacrylate         | 9.18  | 69   | 136690   | 19.215  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 154602   | 19.366  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 338151   | 92.453  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 522206   | 101.576 | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.58  | 129  | 92255    | 19.497  | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 101251   | 18.874  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 108078   | 19.483  | ug/l   | 94       |
| 65) Chlorobenzene              | 10.14 | 112  | 260915   | 18.670  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 92300    | 19.633  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 421860   | 18.285  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.36 | 106  | 330318   | 36.340  | ug/l   | 99       |
| 69) o-Xylene                   | 10.69 | 106  | 160834   | 18.143  | ug/l   | 96       |
| 70) Styrene                    | 10.71 | 104  | 263508   | 18.769  | ug/l   | 100      |
| 71) Bromoform                  | 10.86 | 173  | 65763    | 18.885  | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 431253   | 18.863  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.90 | 43   | 176391   | 19.162  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 145085   | 19.989  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 133061m  | 20.252  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 118625   | 18.831  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 473198   | 18.854  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 284444   | 18.827  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 355021   | 18.584  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 33270    | 17.908  | ug/l   | 92       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 324620   | 18.557  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 362202   | 19.003  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 364338   | 18.966  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 428257   | 18.814  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 378399   | 18.585  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 208375   | 18.300  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 211907   | 19.730  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 311844   | 17.967  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 55586    | 19.014  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 210458   | 18.730  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 26597    | 18.528  | ug/l   | 98       |

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Operator : JC/SP  
Sample : VX0126WBS01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0126WBS01

Manual Integrations  
APPROVED

MMDadoda  
1/28/2019 12:01:41 PM

Quant Time: Jan 28 00:35:42 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 08 14:06:59 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 144171   | 18.701 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 70083    | 20.486 | ug/l  | 95       |
| 95) Naphthalene            | 13.83 | 128  | 435626   | 18.648 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 143957   | 18.798 | ug/l  | 98       |

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

