

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111219\  
 Data File : VX013385.D  
 Acq On : 12 Nov 2019 15:18  
 Operator : JC/SP  
 Sample : VX1112WBS02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1112WBS02

Manual Integrations  
 APPROVED

MMDadoda  
 11/13/2019 9:39:55 AM

Quant Time: Nov 13 03:00:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X103119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 02 07:06:38 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 686687   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 1047472  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 940284   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 464629   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.05   | 65  | 411720   | 50.61 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.22% |      |
| 35) Dibromofluoromethane  | 5.48   | 113 | 338530   | 51.53 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.06% |      |
| 50) Toluene-d8            | 8.71   | 98  | 1311593  | 52.96 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.92% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 455041   | 50.91 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.82% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 154731  | 19.556  | ug/l   | 99     |
| 3) Chloromethane              | 1.31 | 50  | 172093  | 20.057  | ug/l   | 97     |
| 4) Vinyl Chloride             | 1.40 | 62  | 199238  | 20.397  | ug/l   | 97     |
| 5) Bromomethane               | 1.62 | 94  | 119756  | 17.593  | ug/l   | 95     |
| 6) Chloroethane               | 1.72 | 64  | 111840  | 19.298  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 220873  | 19.139  | ug/l   | 100    |
| 8) Diethyl Ether              | 2.17 | 74  | 100791  | 19.750  | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 133576  | 20.767  | ug/l   | 100    |
| 10) Methyl Iodide             | 2.50 | 142 | 147720  | 18.549  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 3.03 | 59  | 201477  | 93.964  | ug/l   | 100    |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 134189  | 21.304  | ug/l   | 100    |
| 13) Acrolein                  | 2.28 | 56  | 120182  | 103.418 | ug/l   | 98     |
| 14) Allyl chloride            | 2.72 | 41  | 245369  | 21.439  | ug/l   | 95     |
| 15) Acrylonitrile             | 3.12 | 53  | 429568  | 107.251 | ug/l   | 98     |
| 16) Acetone                   | 2.43 | 43  | 433297  | 106.783 | ug/l   | 100    |
| 17) Carbon Disulfide          | 2.56 | 76  | 335849  | 19.921  | ug/l   | 99     |
| 18) Methyl Acetate            | 2.76 | 43  | 244567  | 21.831  | ug/l   | 100    |
| 19) Methyl tert-butyl Ether   | 3.18 | 73  | 459803  | 21.886  | ug/l   | 98     |
| 20) Methylene Chloride        | 2.84 | 84  | 153197  | 20.434  | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96  | 142852  | 20.829  | ug/l   | 97     |
| 22) Diisopropyl ether         | 3.84 | 45  | 492927  | 22.309  | ug/l # | 89     |
| 23) Vinyl Acetate             | 3.80 | 43  | 2013132 | 106.475 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 263556  | 21.323  | ug/l   | 98     |
| 25) 2-Butanone                | 4.66 | 43  | 639016  | 107.348 | ug/l   | 100    |
| 26) 2,2-Dichloropropane       | 4.57 | 77  | 216650  | 22.033  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 4.58 | 96  | 167275  | 21.773  | ug/l   | 99     |
| 28) Bromochloromethane        | 5.00 | 49  | 69061   | 19.678  | ug/l   | 97     |
| 29) Tetrahydrofuran           | 5.11 | 42  | 392086  | 106.884 | ug/l   | 99     |
| 30) Chloroform                | 5.20 | 83  | 265989  | 21.793  | ug/l   | 99     |
| 31) Cyclohexane               | 5.56 | 56  | 231283  | 20.795  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 218446  | 20.797  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 191232  | 21.281  | ug/l   | 97     |
| 37) Ethyl Acetate             | 4.82 | 43  | 228878  | 20.613  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 5.77 | 117 | 183948  | 20.934  | ug/l   | 94     |

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 Operator : JC/SP  
 Sample : VX1112WBS02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1112WBS02

Manual Integrations  
 APPROVED

MMDadoda  
 11/13/2019 9:39:55 AM

Quant Time: Nov 13 03:00:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X103119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 02 07:06:38 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.45  | 83   | 232579   | 20.772  | ug/l  | 96       |
| 40) Benzene                    | 6.13  | 78   | 596568   | 21.313  | ug/l  | 98       |
| 41) Methacrylonitrile          | 5.03  | 41   | 130388   | 20.950  | ug/l  | 98       |
| 42) 1,2-Dichloroethane         | 6.19  | 62   | 208766   | 20.677  | ug/l  | 97       |
| 43) Isopropyl Acetate          | 6.43  | 43   | 370862   | 21.449  | ug/l  | 99       |
| 44) Trichloroethene            | 7.20  | 130  | 160905   | 20.883  | ug/l  | 99       |
| 45) 1,2-Dichloropropane        | 7.50  | 63   | 155960   | 21.868  | ug/l  | 97       |
| 46) Dibromomethane             | 7.65  | 93   | 100855   | 20.711  | ug/l  | 98       |
| 47) Bromodichloromethane       | 7.89  | 83   | 199256   | 21.699  | ug/l  | 95       |
| 48) Methyl methacrylate        | 7.76  | 41   | 186593   | 21.619  | ug/l  | 98       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 82009    | 414.901 | ug/l  | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 1198201  | 105.624 | ug/l  | 100      |
| 52) Toluene                    | 8.78  | 92   | 370182   | 21.338  | ug/l  | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 216360   | 21.548  | ug/l  | 98       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 242470   | 21.587  | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 153202   | 21.305  | ug/l  | 100      |
| 56) Ethyl methacrylate         | 9.17  | 69   | 246812   | 21.039  | ug/l  | 97       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 262513   | 21.506  | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.30  | 63   | 486825   | 99.013  | ug/l  | 99       |
| 59) 2-Hexanone                 | 9.48  | 43   | 939519   | 107.173 | ug/l  | 99       |
| 60) Dibromochloromethane       | 9.57  | 129  | 156263   | 21.248  | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 163790   | 21.450  | ug/l  | 99       |
| 64) Tetrachloroethene          | 9.33  | 164  | 142500   | 21.170  | ug/l  | 98       |
| 65) Chlorobenzene              | 10.14 | 112  | 403351   | 21.188  | ug/l  | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 150435   | 21.522  | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 707585   | 21.537  | ug/l  | 98       |
| 68) m/p-Xylenes                | 10.36 | 106  | 534126   | 42.986  | ug/l  | 99       |
| 69) o-Xylene                   | 10.69 | 106  | 265005   | 21.784  | ug/l  | 98       |
| 70) Styrene                    | 10.71 | 104  | 438369   | 21.557  | ug/l  | 100      |
| 71) Bromoform                  | 10.85 | 173  | 119595   | 20.474  | ug/l  | 99       |
| 73) Isopropylbenzene           | 11.01 | 105  | 693369   | 22.508  | ug/l  | 100      |
| 74) N-amyl acetate             | 10.89 | 43   | 318285   | 22.281  | ug/l  | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 248613   | 22.122  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 198694m  | 21.054  | ug/l  |          |
| 77) Bromobenzene               | 11.25 | 156  | 179533   | 21.861  | ug/l  | 99       |
| 78) n-propylbenzene            | 11.35 | 91   | 771503   | 22.483  | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 462666   | 22.378  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 583180   | 22.728  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 75831    | 20.683  | ug/l  | 98       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 528379   | 21.832  | ug/l  | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 590458   | 22.859  | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 578489   | 22.474  | ug/l  | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 672458   | 22.652  | ug/l  | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 617927   | 22.605  | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 314760   | 21.502  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 314117   | 21.061  | ug/l  | 100      |
| 89) n-Butylbenzene             | 12.38 | 91   | 514625   | 21.575  | ug/l  | 100      |
| 90) Hexachloroethane           | 12.59 | 117  | 104526   | 21.461  | ug/l  | 99       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 320479   | 21.901  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 52850    | 19.302  | ug/l  | 99       |

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Sample : VX1112WBS02  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1112WBS02

Manual Integrations  
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MMDadoda  
11/13/2019 9:39:55 AM

Quant Time: Nov 13 03:00:01 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X103119W.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 02 07:06:38 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.64 | 180  | 212915   | 20.860 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 104942   | 21.015 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 676211   | 21.115 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 215233   | 21.026 | ug/l  | 99       |

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

