

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021420\  
 Data File : VX014939.D  
 Acq On : 14 Feb 2020 10:34  
 Operator : JC/SP  
 Sample : VX0214WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0214WBS01

Manual Integrations  
 APPROVED

apatel  
 2/17/2020 4:25:19 PM

Quant Time: Feb 14 23:38:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 10 12:09:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 485884   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 708921   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 657041   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 350908   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.05   | 65  | 279259   | 50.93 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.86% |      |
| 35) Dibromofluoromethane  | 5.48   | 113 | 231469   | 53.11 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.22% |      |
| 50) Toluene-d8            | 8.71   | 98  | 876190   | 52.67 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.34% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 322605   | 53.83 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.66% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 95077   | 20.663  | ug/l | 97     |
| 3) Chloromethane              | 1.32 | 50  | 102868  | 19.719  | ug/l | 98     |
| 4) Vinyl Chloride             | 1.41 | 62  | 110318  | 19.630  | ug/l | 100    |
| 5) Bromomethane               | 1.64 | 94  | 72988   | 20.065  | ug/l | 96     |
| 6) Chloroethane               | 1.72 | 64  | 68585   | 19.073  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 158122  | 20.138  | ug/l | 99     |
| 8) Diethyl Ether              | 2.18 | 74  | 63304   | 19.442  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 91500   | 20.076  | ug/l | 99     |
| 10) Methyl Iodide             | 2.51 | 142 | 96167   | 21.642  | ug/l | 100    |
| 11) Tert butyl alcohol        | 3.02 | 59  | 95745   | 98.889  | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 86288   | 19.375  | ug/l | 99     |
| 13) Acrolein                  | 2.28 | 56  | 49076   | 66.505  | ug/l | 98     |
| 14) Allyl chloride            | 2.72 | 41  | 147621  | 18.695  | ug/l | 99     |
| 15) Acrylonitrile             | 3.13 | 53  | 232049  | 94.541  | ug/l | 98     |
| 16) Acetone                   | 2.43 | 43  | 272873  | 85.444  | ug/l | 100    |
| 17) Carbon Disulfide          | 2.57 | 76  | 229460  | 18.440  | ug/l | 98     |
| 18) Methyl Acetate            | 2.76 | 43  | 106756  | 19.330  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.18 | 73  | 292030  | 20.148  | ug/l | 97     |
| 20) Methylene Chloride        | 2.85 | 84  | 99178   | 18.801  | ug/l | 96     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96  | 93549   | 19.036  | ug/l | 98     |
| 22) Diisopropyl ether         | 3.84 | 45  | 304956  | 20.221  | ug/l | 94     |
| 23) Vinyl Acetate             | 3.80 | 43  | 1291302 | 103.870 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 167621  | 19.694  | ug/l | 99     |
| 25) 2-Butanone                | 4.65 | 43  | 353437  | 94.674  | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.57 | 77  | 144617  | 19.716  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96  | 108356  | 19.725  | ug/l | 99     |
| 28) Bromochloromethane        | 5.01 | 49  | 68055   | 20.629  | ug/l | 98     |
| 29) Tetrahydrofuran           | 5.11 | 42  | 204272  | 96.255  | ug/l | 98     |
| 30) Chloroform                | 5.20 | 83  | 167812  | 19.872  | ug/l | 99     |
| 31) Cyclohexane               | 5.57 | 56  | 154035  | 19.870  | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 147102  | 19.914  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 127836  | 20.159  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.82 | 43  | 131827  | 19.931  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.77 | 117 | 124741  | 20.185  | ug/l | 98     |

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 Sample : VX0214WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0214WBS01

Manual Integrations  
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apatel  
 2/17/2020 4:25:19 PM

Quant Time: Feb 14 23:38:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 10 12:09:20 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.45  | 83   | 159588   | 20.122  | ug/l  | 98       |
| 40) Benzene                    | 6.14  | 78   | 379227   | 20.015  | ug/l  | 99       |
| 41) Methacrylonitrile          | 5.03  | 41   | 72453    | 20.334  | ug/l  | 97       |
| 42) 1,2-Dichloroethane         | 6.18  | 62   | 140953   | 20.583  | ug/l  | 98       |
| 43) Isopropyl Acetate          | 6.43  | 43   | 217763   | 19.959  | ug/l  | 99       |
| 44) Trichloroethene            | 7.20  | 130  | 108819   | 19.784  | ug/l  | 98       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 96656    | 20.003  | ug/l  | 98       |
| 46) Dibromomethane             | 7.65  | 93   | 65670    | 19.882  | ug/l  | 98       |
| 47) Bromodichloromethane       | 7.89  | 83   | 129669   | 19.799  | ug/l  | 99       |
| 48) Methyl methacrylate        | 7.76  | 41   | 107508   | 20.022  | ug/l  | 99       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 41471    | 413.082 | ug/l  | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.63  | 43   | 666936   | 101.232 | ug/l  | 100      |
| 52) Toluene                    | 8.78  | 92   | 247402   | 20.558  | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 9.03  | 75   | 146168   | 20.365  | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 157375   | 19.848  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 97783    | 20.083  | ug/l  | 99       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 150415   | 20.553  | ug/l  | 98       |
| 57) 1,3-Dichloropropane        | 9.36  | 76   | 165025   | 20.135  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.30  | 63   | 383821   | 100.285 | ug/l  | 99       |
| 59) 2-Hexanone                 | 9.48  | 43   | 525155   | 101.412 | ug/l  | 100      |
| 60) Dibromochloromethane       | 9.57  | 129  | 107011   | 20.423  | ug/l  | 98       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 105411   | 20.066  | ug/l  | 98       |
| 64) Tetrachloroethene          | 9.33  | 164  | 112735   | 18.352  | ug/l  | 96       |
| 65) Chlorobenzene              | 10.13 | 112  | 265366   | 19.913  | ug/l  | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 98925    | 20.447  | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 467953   | 20.647  | ug/l  | 100      |
| 68) m/p-Xylenes                | 10.35 | 106  | 355505   | 40.717  | ug/l  | 99       |
| 69) o-Xylene                   | 10.69 | 106  | 172324   | 20.532  | ug/l  | 100      |
| 70) Styrene                    | 10.71 | 104  | 294438   | 20.737  | ug/l  | 99       |
| 71) Bromoform                  | 10.85 | 173  | 80481    | 19.929  | ug/l  | 99       |
| 73) Isopropylbenzene           | 11.01 | 105  | 466351   | 21.192  | ug/l  | 100      |
| 74) N-amyl acetate             | 10.89 | 43   | 188439   | 20.609  | ug/l  | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 144060   | 20.026  | ug/l  | 98       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 122621m  | 19.324  | ug/l  |          |
| 77) Bromobenzene               | 11.25 | 156  | 122813   | 19.995  | ug/l  | 98       |
| 78) n-propylbenzene            | 11.35 | 91   | 526250   | 20.676  | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 309200   | 20.664  | ug/l  | 98       |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 389902   | 21.205  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 47075    | 18.989  | ug/l  | 96       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 359093   | 20.265  | ug/l  | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 373165   | 21.432  | ug/l  | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 394646   | 21.298  | ug/l  | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 451271   | 20.863  | ug/l  | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 421880   | 20.842  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 218806   | 19.858  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 219965   | 19.549  | ug/l  | 98       |
| 89) n-Butylbenzene             | 12.38 | 91   | 359540   | 19.833  | ug/l  | 100      |
| 90) Hexachloroethane           | 12.59 | 117  | 74124    | 20.969  | ug/l  | 99       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 215626   | 19.955  | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 31542    | 18.690  | ug/l  | 98       |

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Sample : VX0214WBS01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0214WBS01

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apatel  
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Quant Time: Feb 14 23:38:18 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
Quant Title : SW846 8260  
QLast Update : Mon Feb 10 12:09:20 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.64 | 180  | 155450   | 19.490 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 78661    | 20.391 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 440539   | 20.774 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 156320   | 20.286 | ug/l  | 99       |

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

