

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX080119\  
 Data File : VX011261.D  
 Acq On : 01 Aug 2019 15:50  
 Operator : JC/SP  
 Sample : VSTDIC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC020

Manual Integrations  
 APPROVED

MMDadoda  
 8/2/2019 9:06:59 AM

Quant Time: Aug 02 01:39:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 02 01:21:05 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 170206   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 237873   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 222514   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 116591   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 6.06   | 65  | 30828    | 17.24 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 34.48% |      |
| 35) Dibromofluoromethane    | 5.49   | 113 | 29808    | 19.73 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 39.46% |      |
| 50) Toluene-d8              | 8.71   | 98  | 110268   | 19.50 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 39.00% |      |
| 62) 4-Bromofluorobenzene    | 11.13  | 95  | 38569    | 18.64 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 37.28% |      |

| Target Compounds              |      |     |        |        |      | Qvalue |
|-------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 25134  | 16.707 | ug/l | 100    |
| 3) Chloromethane              | 1.32 | 50  | 27244  | 17.652 | ug/l | 100    |
| 4) Vinyl Chloride             | 1.40 | 62  | 30082  | 18.897 | ug/l | 97     |
| 5) Bromomethane               | 1.63 | 94  | 22972  | 23.980 | ug/l | 93     |
| 6) Chloroethane               | 1.71 | 64  | 20776  | 20.220 | ug/l | 97     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 54366  | 19.834 | ug/l | 100    |
| 8) Diethyl Ether              | 2.18 | 74  | 18306  | 19.332 | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 29887  | 19.278 | ug/l | 100    |
| 10) Methyl Iodide             | 2.50 | 142 | 35449  | 17.480 | ug/l | 100    |
| 11) Tert butyl alcohol        | 3.03 | 59  | 30566  | 73.900 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 28064  | 18.504 | ug/l | 97     |
| 13) Acrolein                  | 2.29 | 56  | 20364  | 85.302 | ug/l | 100    |
| 14) Allyl chloride            | 2.72 | 41  | 38017  | 17.281 | ug/l | 98     |
| 15) Acrylonitrile             | 3.14 | 53  | 74683  | 87.367 | ug/l | 98     |
| 16) Acetone                   | 2.43 | 43  | 77150  | 94.278 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.56 | 76  | 66138  | 17.144 | ug/l | 99     |
| 18) Methyl Acetate            | 2.76 | 43  | 33893  | 17.987 | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.18 | 73  | 83763  | 17.180 | ug/l | 97     |
| 20) Methylene Chloride        | 2.85 | 84  | 31427  | 18.029 | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 3.15 | 96  | 29855  | 18.401 | ug/l | 94     |
| 22) Diisopropyl ether         | 3.84 | 45  | 83106  | 17.875 | ug/l | 90     |
| 23) Vinyl Acetate             | 3.81 | 43  | 351593 | 89.207 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 48243  | 17.791 | ug/l | 100    |
| 25) 2-Butanone                | 4.66 | 43  | 107142 | 90.959 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 38187  | 17.276 | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96  | 34092  | 18.192 | ug/l | 98     |
| 28) Bromochloromethane        | 5.01 | 49  | 21783  | 17.236 | ug/l | 98     |
| 29) Tetrahydrofuran           | 5.12 | 42  | 64079  | 86.024 | ug/l | 99     |
| 30) Chloroform                | 5.20 | 83  | 53496  | 18.237 | ug/l | 97     |
| 31) Cyclohexane               | 5.57 | 56  | 41029  | 16.877 | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 44592  | 17.627 | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 39622  | 20.056 | ug/l | 100    |
| 37) Ethyl Acetate             | 4.82 | 43  | 37540  | 18.728 | ug/l | 98     |
| 38) Carbon Tetrachloride      | 5.77 | 117 | 39139  | 19.046 | ug/l | 95     |

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 ALS Vial : 4 Sample Multiplier: 1

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 8/2/2019 9:06:59 AM

Quant Time: Aug 02 01:39:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 02 01:21:05 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 47174    | 18.702  | ug/l   | 99       |
| 40) Benzene                    | 6.13  | 78   | 120341   | 19.887  | ug/l   | 94       |
| 41) Methacrylonitrile          | 5.03  | 41   | 20949    | 18.206  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.18  | 62   | 39204    | 18.725  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 6.43  | 43   | 59726    | 18.080  | ug/l   | 98       |
| 44) Trichloroethene            | 7.21  | 130  | 36514    | 20.357  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 29963    | 19.459  | ug/l   | 97       |
| 46) Dibromomethane             | 7.65  | 93   | 21904    | 19.921  | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.89  | 83   | 36558    | 18.744  | ug/l   | 97       |
| 48) Methyl methacrylate        | 7.76  | 41   | 28470    | 17.716  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 16597    | 367.206 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 8.63  | 43   | 201409   | 93.738  | ug/l   | 100      |
| 52) Toluene                    | 8.78  | 92   | 78916    | 19.837  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 37402    | 17.881  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 44700    | 19.164  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 32124    | 19.606  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 45304    | 19.047  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 50623    | 19.548  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.30  | 63   | 111042   | 97.420  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 161781   | 97.078  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.58  | 129  | 31413    | 18.996  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 35099    | 20.175  | ug/l   | 97       |
| 64) Tetrachloroethene          | 9.34  | 164  | 36882    | 20.721  | ug/l   | 96       |
| 65) Chlorobenzene              | 10.13 | 112  | 89872    | 19.388  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 31057    | 19.136  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 152404   | 19.383  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.35 | 106  | 120622   | 39.788  | ug/l   | 98       |
| 69) o-Xylene                   | 10.69 | 106  | 57246    | 19.412  | ug/l   | 99       |
| 70) Styrene                    | 10.71 | 104  | 97268    | 19.757  | ug/l   | 100      |
| 71) Bromoform                  | 10.85 | 173  | 22586    | 17.447  | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 155078   | 19.486  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 54310    | 17.962  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 49814    | 19.114  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 40934m   | 19.276  | ug/l   |          |
| 77) Bromobenzene               | 11.25 | 156  | 42549    | 19.369  | ug/l   | 98       |
| 78) n-propylbenzene            | 11.36 | 91   | 172455   | 19.633  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 99541    | 18.911  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 128230   | 19.365  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 12041    | 15.720  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 115615   | 18.842  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 127613   | 19.561  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 129963   | 19.401  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 154385   | 20.165  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 141401   | 19.959  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 74928    | 19.599  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 74571    | 19.034  | ug/l   | 97       |
| 89) n-Butylbenzene             | 12.38 | 91   | 121228   | 20.005  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.59 | 117  | 20207    | 18.165  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 75384    | 19.874  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 9213     | 17.071  | ug/l   | 94       |

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Sample : VSTDICC020  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC020

Manual Integrations  
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8/2/2019 9:06:59 AM

Quant Time: Aug 02 01:39:29 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 02 01:21:05 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 51340    | 20.031 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 26122    | 20.490 | ug/l  | 98       |
| 95) Naphthalene            | 13.83 | 128  | 150630   | 19.885 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 51033    | 19.970 | ug/l  | 97       |

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

