

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040119\  
 Data File : VX008583.D  
 Acq On : 01 Apr 2019 20:49  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 4/2/2019 10:06:22 AM

Quant Time: Apr 02 03:21:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032519W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 26 07:57:20 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 172786   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 296598   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 266860   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 126963   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response   | Conc    | Units | Dev(Min) |
|-----------------------------|-------|------|------------|---------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 131157     | 50.07   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 100.14% |       |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 97816      | 50.58   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 101.16% |       |          |
| 50) Toluene-d8              | 8.71  | 98   | 384625     | 49.74   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 99.48%  |       |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 145471     | 50.76   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 101.52% |       |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 83034    | 40.769  | ug/l  | 98     |
| 3) Chloromethane              | 1.32 | 50   | 114822   | 44.604  | ug/l  | 100    |
| 4) Vinyl Chloride             | 1.40 | 62   | 119456   | 42.007  | ug/l  | 99     |
| 5) Bromomethane               | 1.64 | 94   | 47550    | 32.515  | ug/l  | 99     |
| 6) Chloroethane               | 1.71 | 64   | 72109    | 42.804  | ug/l  | 97     |
| 7) Trichlorofluoromethane     | 1.92 | 101  | 136902   | 42.507  | ug/l  | 97     |
| 8) Diethyl Ether              | 2.18 | 74   | 67129    | 44.042  | ug/l  | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101  | 86423    | 44.401  | ug/l  | 99     |
| 10) Methyl Iodide             | 2.51 | 142  | 59752    | 33.074  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 3.06 | 59   | 144297   | 248.631 | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 90524    | 45.033  | ug/l  | 95     |
| 13) Acrolein                  | 2.29 | 56   | 84975    | 201.622 | ug/l  | 100    |
| 14) Allyl chloride            | 2.72 | 41   | 207750   | 46.911  | ug/l  | 99     |
| 15) Acrylonitrile             | 3.14 | 53   | 378411   | 248.657 | ug/l  | 100    |
| 16) Acetone                   | 2.45 | 43   | 320555   | 234.138 | ug/l  | 99     |
| 17) Carbon Disulfide          | 2.56 | 76   | 250210   | 43.332  | ug/l  | 100    |
| 18) Methyl Acetate            | 2.78 | 43   | 169431   | 51.527  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73   | 352815   | 48.706  | ug/l  | 98     |
| 20) Methylene Chloride        | 2.85 | 84   | 111987   | 50.120  | ug/l  | 98     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96   | 96272    | 48.053  | ug/l  | 97     |
| 22) Diisopropyl ether         | 3.85 | 45   | 422345   | 48.433  | ug/l  | 100    |
| 23) Vinyl Acetate             | 3.81 | 43   | 1866159  | 245.295 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 3.69 | 63   | 207985   | 47.244  | ug/l  | 99     |
| 25) 2-Butanone                | 4.67 | 43   | 550706   | 250.904 | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 4.58 | 77   | 132555   | 45.270  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96   | 115987   | 47.186  | ug/l  | 99     |
| 28) Bromochloromethane        | 5.01 | 49   | 103268   | 47.480  | ug/l  | 100    |
| 29) Tetrahydrofuran           | 5.13 | 42   | 359752   | 248.690 | ug/l  | 98     |
| 30) Chloroform                | 5.21 | 83   | 189230   | 47.629  | ug/l  | 100    |
| 31) Cyclohexane               | 5.57 | 56   | 190292   | 45.321  | ug/l  | 98     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97   | 152584   | 48.047  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 5.80 | 75   | 141098   | 44.617  | ug/l  | 99     |
| 37) Ethyl Acetate             | 4.84 | 43   | 207314   | 50.604  | ug/l  | 100    |
| 38) Carbon Tetrachloride      | 5.78 | 117  | 124480   | 47.167  | ug/l  | 97     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
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 4/2/2019 10:06:22 AM

Quant Time: Apr 02 03:21:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032519W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 26 07:57:20 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 169672   | 44.895  | ug/l  | 99       |
| 40) Benzene                    | 6.14  | 78   | 442597   | 46.749  | ug/l  | 100      |
| 41) Methacrylonitrile          | 5.04  | 41   | 117720   | 51.131  | ug/l  | 99       |
| 42) 1,2-Dichloroethane         | 6.19  | 62   | 158775   | 45.805  | ug/l  | 100      |
| 43) Isopropyl Acetate          | 6.45  | 43   | 327686   | 50.006  | ug/l  | 100      |
| 44) Trichloroethene            | 7.21  | 130  | 101268   | 45.556  | ug/l  | 99       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 128645   | 47.806  | ug/l  | 99       |
| 46) Dibromomethane             | 7.66  | 93   | 73517    | 46.784  | ug/l  | 98       |
| 47) Bromodichloromethane       | 7.90  | 83   | 146676   | 48.765  | ug/l  | 98       |
| 48) Methyl methacrylate        | 7.77  | 41   | 166198   | 50.689  | ug/l  | 98       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 58820    | 902.233 | ug/l  | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 1107189  | 260.138 | ug/l  | 100      |
| 52) Toluene                    | 8.78  | 92   | 266973   | 47.162  | ug/l  | 98       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 165277   | 50.168  | ug/l  | 97       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 182992   | 48.847  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 112090   | 48.643  | ug/l  | 99       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 210812   | 50.682  | ug/l  | 100      |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 197232   | 47.739  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 552853   | 257.125 | ug/l  | 100      |
| 59) 2-Hexanone                 | 9.49  | 43   | 847874   | 257.095 | ug/l  | 99       |
| 60) Dibromochloromethane       | 9.58  | 129  | 108054   | 49.307  | ug/l  | 98       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 113335   | 48.194  | ug/l  | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 85763    | 47.471  | ug/l  | 98       |
| 65) Chlorobenzene              | 10.13 | 112  | 276189   | 47.591  | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 98661    | 49.275  | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 519261   | 47.409  | ug/l  | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 376951   | 94.603  | ug/l  | 99       |
| 69) o-Xylene                   | 10.69 | 106  | 186865   | 48.326  | ug/l  | 97       |
| 70) Styrene                    | 10.71 | 104  | 329067   | 49.267  | ug/l  | 100      |
| 71) Bromoform                  | 10.85 | 173  | 80775    | 51.084  | ug/l  | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 492548   | 47.686  | ug/l  | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 298741   | 49.969  | ug/l  | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 191141   | 47.694  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 162091m  | 42.944  | ug/l  |          |
| 77) Bromobenzene               | 11.26 | 156  | 117983   | 47.064  | ug/l  | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 575065   | 47.527  | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 345781   | 46.984  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 412633   | 47.253  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 61149    | 51.888  | ug/l  | 100      |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 397024   | 46.768  | ug/l  | 99       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 400313   | 47.515  | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 415368   | 47.028  | ug/l  | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 477228   | 47.566  | ug/l  | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 428716   | 48.426  | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 209437   | 46.759  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 208636   | 46.155  | ug/l  | 100      |
| 89) n-Butylbenzene             | 12.38 | 91   | 397531   | 47.401  | ug/l  | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 71891    | 48.744  | ug/l  | 98       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 211271   | 47.102  | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 41579    | 47.582  | ug/l  | 99       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
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4/2/2019 10:06:22 AM

Quant Time: Apr 02 03:21:31 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032519W.M  
Quant Title : SW846 8260  
QLast Update : Tue Mar 26 07:57:20 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 143444   | 47.501 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 68631    | 47.863 | ug/l  | 100      |
| 95) Naphthalene            | 13.83 | 128  | 498461   | 48.145 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 144923   | 47.758 | ug/l  | 100      |

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

