

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090518\  
 Data File : VX004377.D  
 Acq On : 05 Sep 2018 18:28  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 9/6/2018 12:48:54 PM

Quant Time: Sep 06 01:57:30 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 05:39:44 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 322053   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 472805   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 434163   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 269324   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 195999   | 46.69 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.38% |      |
| 35) Dibromofluoromethane    | 5.50   | 113 | 172241   | 48.97 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.94% |      |
| 50) Toluene-d8              | 8.71   | 98  | 639755   | 48.19 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.38% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 246943   | 49.85 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.70% |      |

|                               |      |     |         |        |      |     |
|-------------------------------|------|-----|---------|--------|------|-----|
| Target Compounds              |      |     |         | Qvalue |      |     |
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 162715  | 43.62  | ug/l | 97  |
| 3) Chloromethane              | 1.32 | 50  | 194372  | 47.16  | ug/l | 98  |
| 4) Vinyl Chloride             | 1.40 | 62  | 202608  | 48.01  | ug/l | 99  |
| 5) Bromomethane               | 1.63 | 94  | 83015   | 39.49  | ug/l | 99  |
| 6) Chloroethane               | 1.71 | 64  | 133868  | 44.44  | ug/l | 99  |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 265444  | 45.90  | ug/l | 94  |
| 8) Diethyl Ether              | 2.18 | 74  | 125068  | 50.51  | ug/l | 98  |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 169687  | 46.85  | ug/l | 99  |
| 10) Methyl Iodide             | 2.50 | 142 | 191584  | 47.14  | ug/l | 97  |
| 11) Tert butyl alcohol        | 3.08 | 59  | 232220  | 259.53 | ug/l | 99  |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 159428  | 46.73  | ug/l | 96  |
| 13) Acrolein                  | 2.29 | 56  | 52308   | 242.49 | ug/l | 98  |
| 14) Allyl chloride            | 2.72 | 41  | 307538  | 49.06  | ug/l | 97  |
| 15) Acrylonitrile             | 3.15 | 53  | 559083  | 252.31 | ug/l | 100 |
| 16) Acetone                   | 2.45 | 43  | 443355  | 259.03 | ug/l | 97  |
| 17) Carbon Disulfide          | 2.56 | 76  | 377813  | 40.04  | ug/l | 100 |
| 18) Methyl Acetate            | 2.78 | 43  | 399272  | 64.10  | ug/l | 99  |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 590054  | 52.48  | ug/l | 99  |
| 20) Methylene Chloride        | 2.86 | 84  | 190674  | 47.19  | ug/l | 97  |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96  | 174432  | 46.19  | ug/l | 95  |
| 22) Diisopropyl ether         | 3.87 | 45  | 598340  | 51.12  | ug/l | 99  |
| 23) Vinyl Acetate             | 3.82 | 43  | 2258011 | 238.04 | ug/l | 99  |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 342197  | 50.17  | ug/l | 99  |
| 25) 2-Butanone                | 4.71 | 43  | 739095  | 262.93 | ug/l | 99  |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 244740  | 45.75  | ug/l | 98  |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96  | 211098  | 49.29  | ug/l | 98  |
| 28) Bromochloromethane        | 5.01 | 49  | 148022  | 49.02  | ug/l | 99  |
| 29) Tetrahydrofuran           | 5.16 | 42  | 467087  | 258.99 | ug/l | 99  |
| 30) Chloroform                | 5.21 | 83  | 339920  | 49.71  | ug/l | 99  |
| 31) Cyclohexane               | 5.57 | 56  | 284132  | 48.28  | ug/l | 98  |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 283691  | 49.75  | ug/l | 99  |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 248237  | 46.70  | ug/l | 99  |
| 37) Ethyl Acetate             | 4.86 | 43  | 260105  | 49.76  | ug/l | 99  |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 239534  | 47.90  | ug/l | 97  |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
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Instrument :  
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 9/6/2018 12:48:54 PM

Quant Time: Sep 06 01:57:30 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 05:39:44 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 295011   | 48.61   | ug/l  | 99       |
| 40) Benzene                    | 6.14  | 78   | 778014   | 48.99   | ug/l  | 100      |
| 41) Methacrylonitrile          | 5.06  | 41   | 157085   | 51.84   | ug/l  | 99       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 259030   | 47.81   | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.46  | 43   | 422976   | 52.66   | ug/l  | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 214313   | 48.75   | ug/l  | 100      |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 201914   | 50.79   | ug/l  | 100      |
| 46) Dibromomethane             | 7.67  | 93   | 127198   | 48.06   | ug/l  | 97       |
| 47) Bromodichloromethane       | 7.90  | 83   | 244814   | 49.71   | ug/l  | 98       |
| 48) Methyl methacrylate        | 7.78  | 41   | 225002   | 52.35   | ug/l  | 98       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 101693   | 1042.07 | ug/l  | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 1436810  | 246.18  | ug/l  | 99       |
| 52) Toluene                    | 8.79  | 92   | 495599   | 49.85   | ug/l  | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 280145   | 51.50   | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene    | 8.44  | 75   | 310138   | 52.34   | ug/l  | 97       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 203793   | 50.78   | ug/l  | 98       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 305247   | 55.87   | ug/l  | 97       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 342902   | 50.69   | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 742647   | 265.29  | ug/l  | 100      |
| 59) 2-Hexanone                 | 9.50  | 43   | 1104934  | 248.15  | ug/l  | 99       |
| 60) Dibromochloromethane       | 9.59  | 129  | 200862   | 51.37   | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 208152   | 50.12   | ug/l  | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 223907   | 52.21   | ug/l  | 99       |
| 65) Chlorobenzene              | 10.14 | 112  | 547450   | 50.24   | ug/l  | 92       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 193463   | 51.48   | ug/l  | 98       |
| 67) Ethyl Benzene              | 10.25 | 91   | 903220   | 51.04   | ug/l  | 97       |
| 68) m/p-Xylenes                | 10.36 | 106  | 730562   | 105.58  | ug/l  | 98       |
| 69) o-Xylene                   | 10.70 | 106  | 357562   | 54.63   | ug/l  | 99       |
| 70) Styrene                    | 10.71 | 104  | 588240   | 55.51   | ug/l  | 99       |
| 71) Bromoform                  | 10.86 | 173  | 154703   | 51.07   | ug/l  | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 964932   | 54.55   | ug/l  | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 371024   | 54.48   | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 308266   | 49.80   | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 283009m  | 51.67   | ug/l  |          |
| 77) Bromobenzene               | 11.26 | 156  | 257956   | 51.99   | ug/l  | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 1107082  | 54.42   | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 649982   | 51.91   | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 800118   | 54.62   | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 91385    | 54.13   | ug/l  | 94       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 757086   | 51.38   | ug/l  | 99       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 806068   | 54.69   | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 856970   | 56.99   | ug/l  | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 979489   | 55.98   | ug/l  | 99       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 872408   | 55.63   | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 471410   | 50.46   | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 471650   | 47.88   | ug/l  | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 697991   | 54.74   | ug/l  | 98       |
| 90) Hexachloroethane           | 12.60 | 117  | 124613   | 56.85   | ug/l  | 97       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 431969   | 50.59   | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 57212    | 52.47   | ug/l  | 96       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
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9/6/2018 12:48:54 PM

Quant Time: Sep 06 01:57:30 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
Quant Title : SW846 8260  
QLast Update : Thu Aug 23 05:39:44 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 353856   | 56.96 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 167590   | 58.01 | ug/l  | 98       |
| 95) Naphthalene            | 13.83 | 128  | 1074080  | 61.13 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 365716   | 55.61 | ug/l  | 98       |

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

