

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070518\  
 Data File : VX003187.D  
 Acq On : 05 Jul 2018 21:54  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

sam  
 7/6/2018 4:20:27 PM

Quant Time: Jul 06 01:53:46 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062518W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 25 14:38:05 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 270241   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 374431   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 355053   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 229018   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 158764   | 42.50 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 85.00% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 135806   | 45.80 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.60% |      |
| 50) Toluene-d8              | 8.72   | 98  | 472111   | 43.60 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 87.20% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 185806   | 44.49 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 88.98% |      |

|                               |      |     |         |        |      |     |
|-------------------------------|------|-----|---------|--------|------|-----|
| Target Compounds              |      |     |         | Qvalue |      |     |
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 118866  | 49.26  | ug/l | 98  |
| 3) Chloromethane              | 1.32 | 50  | 123827  | 49.41  | ug/l | 99  |
| 4) Vinyl Chloride             | 1.40 | 62  | 138543  | 45.33  | ug/l | 99  |
| 5) Bromomethane               | 1.64 | 94  | 40332   | 27.02  | ug/l | 99  |
| 6) Chloroethane               | 1.71 | 64  | 88346   | 49.24  | ug/l | 100 |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 219140  | 42.51  | ug/l | 96  |
| 8) Diethyl Ether              | 2.19 | 74  | 83011   | 44.29  | ug/l | 95  |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 126195  | 42.25  | ug/l | 96  |
| 10) Methyl Iodide             | 2.51 | 142 | 100808  | 35.36  | ug/l | 97  |
| 11) Tert butyl alcohol        | 3.09 | 59  | 164880  | 221.58 | ug/l | 99  |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 116438  | 43.69  | ug/l | 94  |
| 13) Acrolein                  | 2.29 | 56  | 94818   | 230.19 | ug/l | 99  |
| 14) Allyl chloride            | 2.73 | 41  | 221790  | 42.22  | ug/l | 95  |
| 15) Acrylonitrile             | 3.15 | 53  | 365390  | 229.90 | ug/l | 99  |
| 16) Acetone                   | 2.45 | 43  | 330114  | 213.41 | ug/l | 97  |
| 17) Carbon Disulfide          | 2.57 | 76  | 304581  | 42.89  | ug/l | 99  |
| 18) Methyl Acetate            | 2.78 | 43  | 183060  | 42.33  | ug/l | 98  |
| 19) Methyl tert-butyl Ether   | 3.21 | 73  | 419146  | 43.75  | ug/l | 100 |
| 20) Methylene Chloride        | 2.86 | 84  | 132862  | 44.14  | ug/l | 94  |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96  | 126589  | 43.61  | ug/l | 91  |
| 22) Diisopropyl ether         | 3.88 | 45  | 434812  | 43.30  | ug/l | 98  |
| 23) Vinyl Acetate             | 3.83 | 43  | 1896368 | 223.01 | ug/l | 98  |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 240455  | 44.05  | ug/l | 99  |
| 25) 2-Butanone                | 4.72 | 43  | 550069  | 239.61 | ug/l | 97  |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 140877  | 31.74  | ug/l | 95  |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 151232  | 46.47  | ug/l | 93  |
| 28) Bromochloromethane        | 5.02 | 49  | 124916  | 47.81  | ug/l | 91  |
| 29) Tetrahydrofuran           | 5.17 | 42  | 354865  | 241.05 | ug/l | 96  |
| 30) Chloroform                | 5.22 | 83  | 256881  | 45.86  | ug/l | 99  |
| 31) Cyclohexane               | 5.57 | 56  | 216398  | 46.20  | ug/l | 94  |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97  | 227194  | 46.10  | ug/l | 99  |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 186293  | 45.37  | ug/l | 99  |
| 37) Ethyl Acetate             | 4.87 | 43  | 213094  | 48.20  | ug/l | 99  |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 205136  | 45.53  | 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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 7/6/2018 4:20:27 PM

Quant Time: Jul 06 01:53:46 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062518W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 25 14:38:05 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 214216   | 44.79  | ug/l   | 97       |
| 40) Benzene                    | 6.15  | 78   | 556136   | 46.61  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.07  | 41   | 120513   | 47.34  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 209024   | 43.37  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.48  | 43   | 343851   | 46.37  | ug/l   | 98       |
| 44) Trichloroethene            | 7.22  | 130  | 163580   | 45.99  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 146217   | 46.20  | ug/l   | 100      |
| 46) Dibromomethane             | 7.67  | 93   | 99917    | 45.49  | ug/l   | 95       |
| 47) Bromodichloromethane       | 7.90  | 83   | 190530   | 46.93  | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.78  | 41   | 177996   | 46.59  | ug/l   | 95       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 71740    | 965.16 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.66  | 43   | 1107160  | 238.66 | ug/l   | 97       |
| 52) Toluene                    | 8.79  | 92   | 358350   | 46.89  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 215042   | 46.77  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.05  | 75   | 197448   | 44.63  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 148445   | 47.27  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 225444   | 49.12  | ug/l   | 93       |
| 57) 1,3-Dichloropropane        | 9.38  | 76   | 240409   | 46.61  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 556655   | 251.38 | ug/l   | 97       |
| 59) 2-Hexanone                 | 9.50  | 43   | 847896   | 240.49 | ug/l   | 96       |
| 60) Dibromochloromethane       | 9.59  | 129  | 159992   | 48.39  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 157495   | 47.81  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 194387   | 49.24  | ug/l   | 97       |
| 65) Chlorobenzene              | 10.14 | 112  | 415883   | 46.12  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 156572   | 47.79  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.26 | 91   | 696084   | 46.72  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 547841   | 95.42  | ug/l   | 97       |
| 69) o-Xylene                   | 10.70 | 106  | 264948   | 47.39  | ug/l   | 97       |
| 70) Styrene                    | 10.71 | 104  | 444552   | 48.94  | ug/l   | 98       |
| 71) Bromoform                  | 10.86 | 173  | 129423   | 44.21  | ug/l   | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 716592   | 46.51  | ug/l   | 100      |
| 74) N-amyl acetate             | 6.48  | 43   | 343851   | 45.61  | ug/l # | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 219431   | 46.24  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 217006m  | 52.31  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 199989   | 45.58  | ug/l   | 96       |
| 78) n-propylbenzene            | 11.37 | 91   | 803319   | 45.81  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 478788   | 45.09  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 602928   | 46.46  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 53930    | 38.55  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 559763   | 44.53  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 590723   | 46.19  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 617363   | 45.92  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 11.95 | 105  | 712546   | 45.93  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 657144   | 47.11  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 367888   | 45.91  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 371845   | 45.09  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 532098   | 43.83  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 97016    | 46.76  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 371363   | 45.92  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 51641    | 48.40  | ug/l   | 88       |

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Instrument :  
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ClientSampleId :  
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Manual Integrations  
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Quant Title : SW846 8260  
QLast Update : Mon Jun 25 14:38:05 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 280345   | 47.63 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 131156   | 44.68 | ug/l  | 100      |
| 95) Naphthalene            | 13.83 | 128  | 805867   | 51.40 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 284634   | 48.41 | ug/l  | 99       |

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

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