

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081418\  
 Data File : VX004026.D  
 Acq On : 14 Aug 2018 12:27  
 Operator : JC/MD  
 Sample : VSTDICC100  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
 APPROVED

MMDadoda  
 8/15/2018 4:49:53 PM

Quant Time: Aug 14 13:00:48 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X081418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 14 12:59:03 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 324988   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 486020   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 454499   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 294679   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |        |         |      |
|---------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 442480   | 102.71 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 205.42% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 356107   | 96.72  | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 193.44% |      |
| 50) Toluene-d8            | 8.72   | 98  | 1465832  | 102.37 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 204.74% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 554583   | 119.70 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 239.40% |      |

## Target Compounds

|                               |      |     |         |        |      | Qvalue |
|-------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 315435  | 95.78  | ug/l | 100    |
| 3) Chloromethane              | 1.32 | 50  | 363119  | 81.04  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.40 | 62  | 404188  | 90.45  | ug/l | 99     |
| 5) Bromomethane               | 1.64 | 94  | 207697  | 72.97  | ug/l | 98     |
| 6) Chloroethane               | 1.71 | 64  | 278875  | 97.54  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 558619  | 94.69  | ug/l | 99     |
| 8) Diethyl Ether              | 2.18 | 74  | 246106  | 92.80  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 345340  | 93.65  | ug/l | 100    |
| 10) Methyl Iodide             | 2.51 | 142 | 405040  | 88.29  | ug/l | 100    |
| 11) Tert butyl alcohol        | 3.06 | 59  | 453015  | 437.61 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 329136  | 94.36  | ug/l | 96     |
| 13) Acrolein                  | 2.29 | 56  | 314826  | 551.73 | ug/l | 99     |
| 14) Allyl chloride            | 2.73 | 41  | 626452  | 93.17  | ug/l | 97     |
| 15) Acrylonitrile             | 3.15 | 53  | 1113758 | 450.89 | ug/l | 100    |
| 16) Acetone                   | 2.44 | 43  | 1101273 | 429.69 | ug/l | 100    |
| 17) Carbon Disulfide          | 2.57 | 76  | 948536  | 89.13  | ug/l | 99     |
| 18) Methyl Acetate            | 2.77 | 43  | 497657  | 89.18  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 1161191 | 93.94  | ug/l | 99     |
| 20) Methylene Chloride        | 2.85 | 84  | 382373  | 61.54  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 365701  | 92.35  | ug/l | 97     |
| 22) Diisopropyl ether         | 3.87 | 45  | 1229014 | 99.43  | ug/l | 99     |
| 23) Vinyl Acetate             | 3.82 | 43  | 5243487 | 509.86 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 681499  | 92.82  | ug/l | 100    |
| 25) 2-Butanone                | 4.70 | 43  | 1870159 | 485.33 | ug/l | 100    |
| 26) 1,2-Dichloropropane       | 4.59 | 77  | 540541  | 102.09 | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 415718  | 96.75  | ug/l | 100    |
| 28) Bromochloromethane        | 5.02 | 49  | 313166  | 99.67  | ug/l | 96     |
| 29) Tetrahydrofuran           | 5.15 | 42  | 946371  | 477.83 | ug/l | 98     |
| 30) Chloroform                | 5.21 | 83  | 661621  | 95.72  | ug/l | 99     |
| 31) Cyclohexane               | 5.57 | 56  | 612229  | 98.60  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 574247  | 99.07  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 531053  | 97.56  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.85 | 43  | 575300  | 96.07  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 5.79 | 117 | 520974  | 100.56 | ug/l | 98     |

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 VSTDICC100

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Quant Time: Aug 14 13:00:48 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X081418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 14 12:59:03 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 646351   | 100.71  | ug/l   | 98       |
| 40) Benzene                    | 6.15  | 78   | 1594118  | 97.53   | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.06  | 41   | 315351   | 95.63   | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 542166   | 98.10   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.46  | 43   | 898786   | 99.74   | ug/l   | 100      |
| 44) Trichloroethene            | 7.21  | 130  | 434745   | 97.25   | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 409225   | 96.95   | ug/l   | 99       |
| 46) Dibromomethane             | 7.66  | 93   | 267329   | 97.55   | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 530019   | 102.67  | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.78  | 41   | 472561   | 103.17  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 208575   | 1932.98 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 3754604  | 502.69  | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 1037528  | 100.46  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 617019   | 105.74  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 8.44  | 75   | 661487   | 105.13  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 412056   | 97.63   | ug/l   | 100      |
| 56) Ethyl methacrylate         | 9.18  | 69   | 656819   | 107.27  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 698574   | 98.90   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 1633581  | 542.53  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.50  | 43   | 2867542  | 513.61  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.59  | 129  | 434740   | 110.48  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 437693   | 103.58  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 412052   | 92.16   | ug/l   | 94       |
| 65) Chlorobenzene              | 10.14 | 112  | 1107554  | 93.65   | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 410763   | 101.03  | ug/l   | 100      |
| 67) Ethyl Benzene              | 10.25 | 91   | 1924826  | 99.43   | ug/l   | 96       |
| 68) m/p-Xylenes                | 10.36 | 106  | 1552711  | 205.27  | ug/l   | 91       |
| 69) o-Xylene                   | 10.70 | 106  | 754515   | 105.66  | ug/l   | 96       |
| 70) Styrene                    | 10.71 | 104  | 1296063  | 110.86  | ug/l   | 98       |
| 71) Bromoform                  | 10.86 | 173  | 354682   | 116.66  | ug/l   | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 2019053  | 92.62   | ug/l   | 96       |
| 74) N-amyl acetate             | 6.46  | 43   | 898786   | 79.28   | ug/l # | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 650992   | 87.13   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 565029m  | 86.81   | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 534824   | 91.97   | ug/l   | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 2308918  | 94.32   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 1323743  | 88.69   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 1704749  | 95.91   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 215803   | 101.05  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 1623077  | 92.82   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 1721933  | 98.47   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 1752489  | 98.05   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.95 | 105  | 2028662  | 98.30   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 1843557  | 99.55   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 981326   | 91.29   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 996001   | 89.31   | ug/l   | 100      |
| 89) n-Butylbenzene             | 12.39 | 91   | 1424883  | 88.30   | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 265430   | 88.28   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 853966   | 80.14   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 125063   | 81.71   | ug/l   | 100      |

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QLast Update : Tue Aug 14 12:59:03 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 664495   | 86.71 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 317950   | 88.58 | ug/l  | 97       |
| 95) Naphthalene            | 13.83 | 128  | 2063855  | 94.03 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 733064   | 95.85 | ug/l  | 99       |

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

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