

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010319\  
 Data File : VX006907.D  
 Acq On : 03 Jan 2019 20:45  
 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

MMDadoda  
 1/4/2019 10:01:37 AM

Quant Time: Jan 04 01:54:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121818W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 19 15:20:58 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 537418   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 802217   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 720914   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 371017   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 282124   | 48.71 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.42%  |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 258303   | 50.92 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.84% |      |
| 50) Toluene-d8            | 8.71   | 98  | 949923   | 49.67 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.34%  |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 333303   | 47.58 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.16%  |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 189638  | 38.572  | ug/l | 99     |
| 3) Chloromethane              | 1.32 | 50  | 210736  | 39.786  | ug/l | 95     |
| 4) Vinyl Chloride             | 1.41 | 62  | 237110  | 42.862  | ug/l | 99     |
| 5) Bromomethane               | 1.64 | 94  | 235841  | 45.512  | ug/l | 97     |
| 6) Chloroethane               | 1.71 | 64  | 160682  | 41.949  | ug/l | 96     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 401898  | 46.598  | ug/l | 99     |
| 8) Diethyl Ether              | 2.19 | 74  | 162242  | 47.361  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 234555  | 46.318  | ug/l | 98     |
| 10) Methyl Iodide             | 2.51 | 142 | 358689  | 49.482  | ug/l | 100    |
| 11) Tert butyl alcohol        | 3.08 | 59  | 308033  | 238.300 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 222620  | 46.363  | ug/l | 97     |
| 13) Acrolein                  | 2.30 | 56  | 191149  | 219.203 | ug/l | 99     |
| 14) Allyl chloride            | 2.73 | 41  | 389081  | 48.140  | ug/l | 100    |
| 15) Acrylonitrile             | 3.15 | 53  | 739645  | 257.712 | ug/l | 100    |
| 16) Acetone                   | 2.45 | 43  | 607852  | 228.425 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.57 | 76  | 468488  | 36.868  | ug/l | 99     |
| 18) Methyl Acetate            | 2.78 | 43  | 456167  | 58.298  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.21 | 73  | 832230  | 52.221  | ug/l | 98     |
| 20) Methylene Chloride        | 2.85 | 84  | 262315  | 47.671  | ug/l | 94     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96  | 234211  | 44.022  | ug/l | 99     |
| 22) Diisopropyl ether         | 3.87 | 45  | 763831  | 51.659  | ug/l | 94     |
| 23) Vinyl Acetate             | 3.82 | 43  | 3069063 | 253.754 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 413319  | 46.826  | ug/l | 100    |
| 25) 2-Butanone                | 4.70 | 43  | 902548  | 241.123 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 286967  | 42.088  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 279472  | 47.611  | ug/l | 100    |
| 28) Bromochloromethane        | 5.02 | 49  | 190650  | 51.286  | ug/l | 97     |
| 29) Tetrahydrofuran           | 5.15 | 42  | 612509  | 248.449 | ug/l | 97     |
| 30) Chloroform                | 5.21 | 83  | 445368  | 48.725  | ug/l | 96     |
| 31) Cyclohexane               | 5.57 | 56  | 332751  | 41.496  | ug/l | 90     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 376356  | 48.763  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 307107  | 46.222  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.85 | 43  | 353733  | 51.151  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 319780  | 49.524  | ug/l | 98     |

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

Instrument :  
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Manual Integrations  
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 1/4/2019 10:01:37 AM

Quant Time: Jan 04 01:54:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121818W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 19 15:20:58 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 362036   | 41.388  | ug/l   | 96       |
| 40) Benzene                    | 6.14  | 78   | 966235   | 47.842  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.06  | 41   | 199107   | 54.230  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 337808   | 49.086  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 6.46  | 43   | 580021   | 55.124  | ug/l   | 98       |
| 44) Trichloroethene            | 7.21  | 130  | 284835   | 46.597  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 253543   | 51.588  | ug/l   | 99       |
| 46) Dibromomethane             | 7.66  | 93   | 177752   | 49.170  | ug/l   | 96       |
| 47) Bromodichloromethane       | 7.90  | 83   | 315497   | 52.567  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.77  | 41   | 293487   | 54.849  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.75  | 88   | 125203   | 892.158 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 1804790  | 269.577 | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 630632   | 48.333  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 348701   | 54.173  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 378961   | 53.656  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 275641   | 51.612  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 401997   | 53.257  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 435199   | 50.649  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 1045295  | 260.516 | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.49  | 43   | 1331468  | 259.931 | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.59  | 129  | 280963   | 50.287  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 294100   | 51.803  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 275024   | 48.178  | ug/l   | 96       |
| 65) Chlorobenzene              | 10.14 | 112  | 740949   | 48.582  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 267750   | 56.268  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 1202109  | 48.235  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.36 | 106  | 952266   | 96.832  | ug/l   | 99       |
| 69) o-Xylene                   | 10.70 | 106  | 473263   | 48.735  | ug/l   | 98       |
| 70) Styrene                    | 10.71 | 104  | 767331   | 49.945  | ug/l   | 100      |
| 71) Bromoform                  | 10.86 | 173  | 207320   | 48.453  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 1234463  | 48.635  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 513071   | 56.473  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 402005   | 53.255  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 367588m  | 53.312  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 340400   | 49.606  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 1364603  | 48.822  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 804735   | 47.510  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 1018135  | 48.700  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 104405   | 46.413  | ug/l   | 100      |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 936479   | 48.199  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 1039289  | 49.670  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 1045418  | 47.541  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 1211690  | 47.232  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 1094742  | 48.546  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 596171   | 48.205  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 598602   | 47.215  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 920160   | 47.945  | ug/l   | 98       |
| 90) Hexachloroethane           | 12.60 | 117  | 164729   | 46.894  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 597535   | 48.299  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 83037    | 53.163  | ug/l   | 98       |

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

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050EC

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1/4/2019 10:01:37 AM

Quant Time: Jan 04 01:54:37 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121818W.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 19 15:20:58 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 413759   | 48.485 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 178052   | 44.265 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 1297623  | 47.642 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 412546   | 46.821 | ug/l  | 98       |

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

