

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042320\  
 Data File : VX015904.D  
 Acq On : 23 Apr 2020 20:47  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 4/24/2020 11:35:10 AM

Quant Time: Apr 24 07:50:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042220W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 23 04:36:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 794774   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 1207069  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 1156254  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 588855   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 473150   | 52.34 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.68% |      |
| 35) Dibromofluoromethane  | 5.47   | 113 | 367059   | 52.68 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.36% |      |
| 50) Toluene-d8            | 8.70   | 98  | 1451279  | 51.74 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.48% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 579302   | 50.35 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.70% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 407356  | 59.878  | ug/l   | 100    |
| 3) Chloromethane              | 1.31 | 50  | 376952  | 54.102  | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.39 | 62  | 415736  | 51.550  | ug/l   | 98     |
| 5) Bromomethane               | 1.62 | 94  | 159868  | 59.105  | ug/l   | 95     |
| 6) Chloroethane               | 1.71 | 64  | 234789  | 51.089  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 553092  | 55.276  | ug/l   | 100    |
| 8) Diethyl Ether              | 2.17 | 74  | 198263  | 48.861  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 345321  | 50.875  | ug/l   | 99     |
| 10) Methyl Iodide             | 2.49 | 142 | 415277  | 49.521  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 3.01 | 59  | 500276  | 270.872 | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 357067  | 51.293  | ug/l   | 98     |
| 13) Acrolein                  | 2.27 | 56  | 285122  | 260.906 | ug/l   | 100    |
| 14) Allyl chloride            | 2.71 | 41  | 750054  | 50.705  | ug/l   | 99     |
| 15) Acrylonitrile             | 3.12 | 53  | 1153232 | 269.009 | ug/l   | 99     |
| 16) Acetone                   | 2.42 | 43  | 966322  | 245.510 | ug/l   | 97     |
| 17) Carbon Disulfide          | 2.55 | 76  | 906636  | 35.864  | ug/l   | 99     |
| 18) Methyl Acetate            | 2.75 | 43  | 667434  | 51.365  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 1332615 | 54.226  | ug/l   | 99     |
| 20) Methylene Chloride        | 2.84 | 84  | 411239  | 51.467  | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 399671  | 51.746  | ug/l   | 96     |
| 22) Diisopropyl ether         | 3.83 | 45  | 1425323 | 53.459  | ug/l   | 94     |
| 23) Vinyl Acetate             | 3.79 | 43  | 5910605 | 267.853 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 747427  | 53.785  | ug/l   | 100    |
| 25) 2-Butanone                | 4.64 | 43  | 1642243 | 263.976 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 4.56 | 77  | 568547  | 45.800  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 4.57 | 96  | 468999  | 53.486  | ug/l   | 98     |
| 28) Bromochloromethane        | 4.99 | 49  | 358098  | 49.110  | ug/l # | 99     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 1083336 | 263.272 | ug/l   | 100    |
| 30) Chloroform                | 5.18 | 83  | 737044  | 52.715  | ug/l   | 99     |
| 31) Cyclohexane               | 5.56 | 56  | 702464  | 53.190  | ug/l   | 94     |
| 32) 1,1,1-Trichloroethane     | 5.47 | 97  | 662458  | 53.140  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 566386  | 52.929  | ug/l   | 100    |
| 37) Ethyl Acetate             | 4.79 | 43  | 660413  | 51.856  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 591127  | 56.081  | ug/l   | 96     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 4/24/2020 11:35:10 AM

Quant Time: Apr 24 07:50:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042220W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 23 04:36:12 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 676133   | 49.895   | ug/l  | 98       |
| 40) Benzene                    | 6.12  | 78   | 1683171  | 52.225   | ug/l  | 97       |
| 41) Methacrylonitrile          | 5.01  | 41   | 382970   | 54.117   | ug/l  | 98       |
| 42) 1,2-Dichloroethane         | 6.17  | 62   | 614545   | 52.952   | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.42  | 43   | 1119830  | 52.127   | ug/l  | 99       |
| 44) Trichloroethene            | 7.19  | 130  | 576291   | 50.880   | ug/l  | 99       |
| 45) 1,2-Dichloropropane        | 7.50  | 63   | 453604   | 53.705   | ug/l  | 98       |
| 46) Dibromomethane             | 7.64  | 93   | 299715   | 48.610   | ug/l  | 98       |
| 47) Bromodichloromethane       | 7.87  | 83   | 602690   | 54.946   | ug/l  | 99       |
| 48) Methyl methacrylate        | 7.75  | 41   | 564018   | 53.374   | ug/l  | 99       |
| 49) 1,4-Dioxane                | 7.72  | 88   | 211508   | 1059.079 | ug/l  | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 3300076  | 266.136  | ug/l  | 100      |
| 52) Toluene                    | 8.76  | 92   | 1083935  | 52.469   | ug/l  | 98       |
| 53) t-1,3-Dichloropropene      | 9.03  | 75   | 710819   | 52.229   | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 755165   | 52.500   | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 439119   | 54.436   | ug/l  | 97       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 726669   | 53.183   | ug/l  | 100      |
| 57) 1,3-Dichloropropane        | 9.36  | 76   | 747951   | 53.358   | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 1817804  | 266.314  | ug/l  | 98       |
| 59) 2-Hexanone                 | 9.47  | 43   | 2496312  | 264.261  | ug/l  | 99       |
| 60) Dibromochloromethane       | 9.57  | 129  | 494413   | 59.350   | ug/l  | 96       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 469175   | 52.625   | ug/l  | 100      |
| 64) Tetrachloroethene          | 9.32  | 164  | 716150   | 45.951   | ug/l  | 98       |
| 65) Chlorobenzene              | 10.12 | 112  | 1182494  | 51.143   | ug/l  | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 459435   | 53.159   | ug/l  | 98       |
| 67) Ethyl Benzene              | 10.24 | 91   | 2097038  | 51.647   | ug/l  | 100      |
| 68) m/p-Xylenes                | 10.34 | 106  | 1590316  | 104.349  | ug/l  | 100      |
| 69) o-Xylene                   | 10.68 | 106  | 775857   | 51.733   | ug/l  | 99       |
| 70) Styrene                    | 10.70 | 104  | 1367358  | 52.655   | ug/l  | 100      |
| 71) Bromoform                  | 10.84 | 173  | 376953   | 66.932   | ug/l  | 97       |
| 73) Isopropylbenzene           | 11.00 | 105  | 2086633  | 55.795   | ug/l  | 100      |
| 74) N-amyl acetate             | 10.88 | 43   | 1038884  | 53.809   | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 468377   | 59.178   | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 613432m  | 54.783   | ug/l  |          |
| 77) Bromobenzene               | 11.24 | 156  | 570100   | 55.791   | ug/l  | 99       |
| 78) n-propylbenzene            | 11.34 | 91   | 2388020  | 55.741   | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 1418801  | 55.133   | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 1755036  | 55.036   | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 235885   | 50.674   | ug/l  | 98       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 1678867  | 54.901   | ug/l  | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 1567462  | 55.414   | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 1820064  | 54.976   | ug/l  | 100      |
| 85) sec-Butylbenzene           | 11.93 | 105  | 2036831  | 54.624   | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 1934070  | 55.470   | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 991986   | 52.885   | ug/l  | 97       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 1019305  | 54.286   | ug/l  | 95       |
| 89) n-Butylbenzene             | 12.37 | 91   | 1660454  | 53.264   | ug/l  | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 305673   | 82.987   | ug/l  | 98       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 964434   | 54.210   | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 141320   | 60.209   | ug/l  | 96       |

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QLast Update : Thu Apr 23 04:36:12 2020  
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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 721437   | 51.467 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 325763   | 51.833 | ug/l  | 98       |
| 95) Naphthalene            | 13.82 | 128  | 2149611  | 53.302 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 715886   | 52.347 | ug/l  | 98       |

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

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