

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX063020\  
 Data File : VX017060.D  
 Acq On : 30 Jun 2020 21:20  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 7/1/2020 10:49:00 AM

Quant Time: Jul 01 08:30:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062920W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 29 17:10:38 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 253240   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 398595   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 379246   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 201769   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 152921   | 48.98 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.96%  |      |
| 35) Dibromofluoromethane  | 5.46   | 113 | 127021   | 50.38 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.76% |      |
| 50) Toluene-d8            | 8.70   | 98  | 463827   | 49.75 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.50%  |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 181112   | 49.69 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.38%  |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 125396  | 51.183  | ug/l | 96     |
| 3) Chloromethane              | 1.31 | 50  | 135349  | 45.641  | ug/l | 100    |
| 4) Vinyl Chloride             | 1.39 | 62  | 133948  | 48.683  | ug/l | 100    |
| 5) Bromomethane               | 1.62 | 94  | 74477   | 51.234  | ug/l | 100    |
| 6) Chloroethane               | 1.71 | 64  | 80886   | 49.775  | ug/l | 97     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 212390  | 52.193  | ug/l | 99     |
| 8) Diethyl Ether              | 2.17 | 74  | 73774   | 53.853  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101 | 122371  | 50.174  | ug/l | 96     |
| 10) Methyl Iodide             | 2.49 | 142 | 148241  | 47.105  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.01 | 59  | 151479  | 254.341 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 125745  | 50.188  | ug/l | 98     |
| 13) Acrolein                  | 2.28 | 56  | 83497   | 234.527 | ug/l | 99     |
| 14) Allyl chloride            | 2.71 | 41  | 224272  | 48.436  | ug/l | 99     |
| 15) Acrylonitrile             | 3.12 | 53  | 371917  | 259.767 | ug/l | 99     |
| 16) Acetone                   | 2.42 | 43  | 304502  | 260.729 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.55 | 76  | 362802  | 51.891  | ug/l | 99     |
| 18) Methyl Acetate            | 2.75 | 43  | 161023  | 52.816  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 441601  | 52.517  | ug/l | 100    |
| 20) Methylene Chloride        | 2.84 | 84  | 144647  | 54.067  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 142802  | 51.360  | ug/l | 94     |
| 22) Diisopropyl ether         | 3.82 | 45  | 439960  | 51.338  | ug/l | 97     |
| 23) Vinyl Acetate             | 3.79 | 43  | 1961460 | 266.352 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 248355  | 50.932  | ug/l | 100    |
| 25) 2-Butanone                | 4.64 | 43  | 503624  | 258.799 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 4.55 | 77  | 188080  | 43.440  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 156354  | 49.630  | ug/l | 99     |
| 28) Bromochloromethane        | 4.98 | 49  | 112363  | 47.353  | ug/l | 98     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 333353  | 259.264 | ug/l | 99     |
| 30) Chloroform                | 5.18 | 83  | 252941  | 50.602  | ug/l | 98     |
| 31) Cyclohexane               | 5.54 | 56  | 211680  | 50.222  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 234620  | 50.965  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 190153  | 50.476  | ug/l | 100    |
| 37) Ethyl Acetate             | 4.79 | 43  | 196162  | 51.321  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 213097  | 51.357  | ug/l | 96     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062920W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 29 17:10:38 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 208711   | 49.794   | ug/l  | 99       |
| 40) Benzene                    | 6.12  | 78   | 560330   | 50.623   | ug/l  | 98       |
| 41) Methacrylonitrile          | 5.01  | 41   | 114082   | 53.031   | ug/l  | 97       |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 205256   | 51.339   | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.42  | 43   | 326956   | 51.477   | ug/l  | 100      |
| 44) Trichloroethene            | 7.19  | 130  | 161228   | 52.803   | ug/l  | 95       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 143985   | 50.647   | ug/l  | 99       |
| 46) Dibromomethane             | 7.63  | 93   | 99866    | 51.453   | ug/l  | 99       |
| 47) Bromodichloromethane       | 7.88  | 83   | 207241   | 51.812   | ug/l  | 98       |
| 48) Methyl methacrylate        | 7.74  | 41   | 160002   | 53.024   | ug/l  | 97       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 69131    | 1011.254 | ug/l  | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 1000685  | 264.305  | ug/l  | 100      |
| 52) Toluene                    | 8.76  | 92   | 355536   | 51.447   | ug/l  | 97       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 225124   | 51.012   | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 238229   | 50.356   | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 146637   | 51.935   | ug/l  | 98       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 216152   | 53.786   | ug/l  | 99       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 244478   | 51.171   | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 573806   | 286.889  | ug/l  | 99       |
| 59) 2-Hexanone                 | 9.48  | 43   | 758427   | 274.284  | ug/l  | 99       |
| 60) Dibromochloromethane       | 9.57  | 129  | 176207   | 53.732   | ug/l  | 98       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 156726   | 51.640   | ug/l  | 99       |
| 64) Tetrachloroethene          | 9.32  | 164  | 150952   | 49.319   | ug/l  | 98       |
| 65) Chlorobenzene              | 10.12 | 112  | 392706   | 50.171   | ug/l  | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.20 | 131  | 156023   | 51.722   | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.24 | 91   | 680923   | 52.091   | ug/l  | 97       |
| 68) m/p-Xylenes                | 10.34 | 106  | 527643   | 105.126  | ug/l  | 99       |
| 69) o-Xylene                   | 10.68 | 106  | 249792   | 52.315   | ug/l  | 99       |
| 70) Styrene                    | 10.70 | 104  | 439363   | 54.037   | ug/l  | 99       |
| 71) Bromoform                  | 10.84 | 173  | 133098   | 55.640   | ug/l  | 99       |
| 73) Isopropylbenzene           | 11.00 | 105  | 672198   | 50.862   | ug/l  | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 290191   | 51.460   | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 209496   | 50.393   | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 199326m  | 50.238   | ug/l  |          |
| 77) Bromobenzene               | 11.24 | 156  | 180079   | 49.578   | ug/l  | 99       |
| 78) n-propylbenzene            | 11.34 | 91   | 770328   | 51.544   | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 456707   | 50.493   | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 572408   | 52.216   | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.05 | 75   | 74595    | 48.687   | ug/l  | 97       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 546515   | 50.544   | ug/l  | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 553291   | 51.415   | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 582061   | 52.337   | ug/l  | 100      |
| 85) sec-Butylbenzene           | 11.93 | 105  | 645419   | 51.023   | ug/l  | 99       |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 610038   | 51.804   | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 321204   | 48.690   | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 328014   | 52.735   | ug/l  | 99       |
| 89) n-Butylbenzene             | 12.37 | 91   | 513316   | 48.819   | ug/l  | 100      |
| 90) Hexachloroethane           | 12.58 | 117  | 116078   | 49.986   | ug/l  | 98       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 306236   | 49.662   | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 47475    | 47.871   | ug/l  | 98       |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 205806   | 48.898 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.76 | 225  | 78324    | 49.050 | ug/l  | 95       |
| 95) Naphthalene            | 13.82 | 128  | 669855   | 52.350 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 202873   | 49.807 | ug/l  | 98       |

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

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