

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX082720\  
 Data File : VX018105.D  
 Acq On : 27 Aug 2020 20:31  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 8/28/2020 2:59:52 PM

Quant Time: Aug 28 04:20:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 03:03:56 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 687972   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 1149212  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 1115610  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 511241   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 502401   | 52.60 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.20% |      |
| 35) Dibromofluoromethane  | 5.47   | 113 | 399433   | 51.03 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.06% |      |
| 50) Toluene-d8            | 8.70   | 98  | 1487197  | 51.02 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.04% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 573737   | 50.02 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.04% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 415531  | 49.609  | ug/l | 99     |
| 3) Chloromethane              | 1.31 | 50  | 435978  | 49.370  | ug/l | 98     |
| 4) Vinyl Chloride             | 1.39 | 62  | 431416  | 49.076  | ug/l | 100    |
| 5) Bromomethane               | 1.62 | 94  | 214845  | 50.670  | ug/l | 97     |
| 6) Chloroethane               | 1.70 | 64  | 237336  | 50.267  | ug/l | 96     |
| 7) Trichlorofluoromethane     | 1.91 | 101 | 589976  | 49.219  | ug/l | 97     |
| 8) Diethyl Ether              | 2.17 | 74  | 201720  | 49.623  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101 | 291007  | 44.906  | ug/l | 97     |
| 10) Methyl Iodide             | 2.49 | 142 | 369379  | 52.929  | ug/l | 98     |
| 11) Tert butyl alcohol        | 3.03 | 59  | 477649  | 257.212 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 2.35 | 96  | 297382  | 44.232  | ug/l | 96     |
| 13) Acrolein                  | 2.28 | 56  | 178198  | 231.425 | ug/l | 98     |
| 14) Allyl chloride            | 2.71 | 41  | 638133  | 52.830  | ug/l | 99     |
| 15) Acrylonitrile             | 3.12 | 53  | 1134591 | 269.343 | ug/l | 100    |
| 16) Acetone                   | 2.42 | 43  | 975192  | 262.037 | ug/l | 97     |
| 17) Carbon Disulfide          | 2.55 | 76  | 960911  | 47.279  | ug/l | 100    |
| 18) Methyl Acetate            | 2.75 | 43  | 519636  | 57.862  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 1194506 | 51.806  | ug/l | 96     |
| 20) Methylene Chloride        | 2.83 | 84  | 404323  | 53.209  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 363558  | 48.808  | ug/l | 98     |
| 22) Diisopropyl ether         | 3.83 | 45  | 1257695 | 52.755  | ug/l | 99     |
| 23) Vinyl Acetate             | 3.79 | 43  | 5694485 | 268.438 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 695956  | 51.282  | ug/l | 99     |
| 25) 2-Butanone                | 4.64 | 43  | 1638639 | 267.915 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 4.55 | 77  | 476807  | 43.181  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.57 | 96  | 432511  | 50.396  | ug/l | 97     |
| 28) Bromochloromethane        | 4.98 | 49  | 340408  | 51.965  | ug/l | 99     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 1060295 | 272.324 | ug/l | 100    |
| 30) Chloroform                | 5.18 | 83  | 710623  | 50.570  | ug/l | 97     |
| 31) Cyclohexane               | 5.55 | 56  | 574448  | 50.251  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 643905  | 49.932  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 524977  | 49.527  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.80 | 43  | 627507  | 50.971  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 578384  | 48.419  | ug/l | 99     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
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Manual Integrations  
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MMDadoda  
 8/28/2020 2:59:52 PM

Quant Time: Aug 28 04:20:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 03:03:56 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 530197   | 45.744  | ug/l  | 97       |
| 40) Benzene                    | 6.12  | 78   | 1550659  | 49.787  | ug/l  | 99       |
| 41) Methacrylonitrile          | 5.01  | 41   | 350131   | 51.798  | ug/l  | 99       |
| 42) 1,2-Dichloroethane         | 6.17  | 62   | 598867   | 50.185  | ug/l  | 98       |
| 43) Isopropyl Acetate          | 6.42  | 43   | 1039239  | 52.264  | ug/l  | 100      |
| 44) Trichloroethene            | 7.19  | 130  | 426699   | 48.485  | ug/l  | 96       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 420813   | 50.130  | ug/l  | 98       |
| 46) Dibromomethane             | 7.64  | 93   | 292912   | 49.620  | ug/l  | 97       |
| 47) Bromodichloromethane       | 7.88  | 83   | 593767   | 50.376  | ug/l  | 99       |
| 48) Methyl methacrylate        | 7.75  | 41   | 524286   | 52.965  | ug/l  | 98       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 178900   | 997.740 | ug/l  | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 3307017  | 269.240 | ug/l  | 100      |
| 52) Toluene                    | 8.77  | 92   | 984658   | 49.857  | ug/l  | 99       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 660744   | 50.581  | ug/l  | 98       |
| 54) cis-1,3-Dichloropropene    | 8.41  | 75   | 682978   | 49.354  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 421553   | 50.047  | ug/l  | 97       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 665221   | 53.125  | ug/l  | 99       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 705073   | 50.751  | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 1443723  | 256.302 | ug/l  | 100      |
| 59) 2-Hexanone                 | 9.48  | 43   | 2577458  | 275.969 | ug/l  | 100      |
| 60) Dibromochloromethane       | 9.57  | 129  | 499858   | 50.588  | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 9.66  | 107  | 458188   | 50.104  | ug/l  | 100      |
| 64) Tetrachloroethene          | 9.32  | 164  | 395516   | 48.244  | ug/l  | 95       |
| 65) Chlorobenzene              | 10.12 | 112  | 1106300  | 49.652  | ug/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 428051   | 48.743  | ug/l  | 96       |
| 67) Ethyl Benzene              | 10.24 | 91   | 1931686  | 50.980  | ug/l  | 100      |
| 68) m/p-Xylenes                | 10.34 | 106  | 1435440  | 101.496 | ug/l  | 100      |
| 69) o-Xylene                   | 10.68 | 106  | 689963   | 50.326  | ug/l  | 99       |
| 70) Styrene                    | 10.69 | 104  | 1208470  | 51.760  | ug/l  | 100      |
| 71) Bromoform                  | 10.84 | 173  | 372954   | 49.790  | ug/l  | 100      |
| 73) Isopropylbenzene           | 11.01 | 105  | 1796634  | 53.278  | ug/l  | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 935546   | 58.472  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 601724   | 50.582  | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 576009m  | 50.648  | ug/l  |          |
| 77) Bromobenzene               | 11.24 | 156  | 468398   | 50.249  | ug/l  | 97       |
| 78) n-propylbenzene            | 11.35 | 91   | 2024963  | 52.885  | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 11.41 | 91   | 1243305  | 52.557  | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 1474791  | 53.220  | ug/l  | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 224184   | 53.240  | ug/l  | 99       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 1455968  | 51.772  | ug/l  | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 1366674  | 49.975  | ug/l  | 97       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 1486552  | 52.470  | ug/l  | 100      |
| 85) sec-Butylbenzene           | 11.93 | 105  | 1584349  | 50.945  | ug/l  | 99       |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 1435544  | 50.253  | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 801853   | 48.995  | ug/l  | 97       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 793062   | 48.397  | ug/l  | 98       |
| 89) n-Butylbenzene             | 12.37 | 91   | 1246489  | 47.807  | ug/l  | 100      |
| 90) Hexachloroethane           | 12.58 | 117  | 275586   | 49.034  | ug/l  | 99       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 761170   | 49.409  | ug/l  | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 157887   | 53.081  | ug/l  | 96       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
VSTDCCC050EC

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Quant Time: Aug 28 04:20:15 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 21 03:03:56 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 480413   | 46.765 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 152471   | 37.629 | ug/l  | 96       |
| 95) Naphthalene            | 13.82 | 128  | 1816336  | 53.725 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 476178   | 46.911 | ug/l  | 99       |

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

