

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052620\  
 Data File : VX016444.D  
 Acq On : 26 May 2020 22:37  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 5/27/2020 12:26:57 PM

Quant Time: May 27 06:37:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052620W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 26 16:32:50 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 141623   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 241775   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 237841   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 123099   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 96167    | 52.42 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.84% |      |
| 35) Dibromofluoromethane  | 5.47   | 113 | 77107    | 49.86 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.72%  |      |
| 50) Toluene-d8            | 8.70   | 98  | 298936   | 52.48 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.96% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 113915   | 53.89 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.78% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 55288   | 48.104  | ug/l | 97     |
| 3) Chloromethane              | 1.31 | 50  | 73095   | 52.012  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.39 | 62  | 100001  | 53.871  | ug/l | 99     |
| 5) Bromomethane               | 1.62 | 94  | 116495  | 50.370  | ug/l | 97     |
| 6) Chloroethane               | 1.70 | 64  | 72686   | 53.094  | ug/l | 96     |
| 7) Trichlorofluoromethane     | 1.91 | 101 | 169051  | 54.732  | ug/l | 100    |
| 8) Diethyl Ether              | 2.17 | 74  | 68178   | 54.154  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101 | 65296   | 48.651  | ug/l | 98     |
| 10) Methyl Iodide             | 2.49 | 142 | 67127   | 44.905  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.01 | 59  | 105979  | 249.914 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 68505   | 49.913  | ug/l | 98     |
| 13) Acrolein                  | 2.27 | 56  | 39513   | 181.528 | ug/l | 99     |
| 14) Allyl chloride            | 2.71 | 41  | 110713  | 49.378  | ug/l | 99     |
| 15) Acrylonitrile             | 3.12 | 53  | 219492  | 259.934 | ug/l | 99     |
| 16) Acetone                   | 2.42 | 43  | 192744  | 263.787 | ug/l | 98     |
| 17) Carbon Disulfide          | 2.55 | 76  | 197371  | 48.595  | ug/l | 99     |
| 18) Methyl Acetate            | 2.75 | 43  | 92619   | 51.976  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 244358  | 51.084  | ug/l | 98     |
| 20) Methylene Chloride        | 2.84 | 84  | 79733   | 50.587  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 76482   | 49.036  | ug/l | 96     |
| 22) Diisopropyl ether         | 3.83 | 45  | 237805  | 52.651  | ug/l | # 88   |
| 23) Vinyl Acetate             | 3.79 | 43  | 1059349 | 262.271 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 136726  | 51.037  | ug/l | 99     |
| 25) 2-Butanone                | 4.64 | 43  | 313377  | 263.956 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 4.54 | 77  | 107587  | 44.183  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.57 | 96  | 89798   | 50.533  | ug/l | 99     |
| 28) Bromochloromethane        | 4.98 | 49  | 63820   | 49.697  | ug/l | 98     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 202299  | 262.914 | ug/l | 98     |
| 30) Chloroform                | 5.18 | 83  | 150110  | 53.321  | ug/l | 100    |
| 31) Cyclohexane               | 5.55 | 56  | 116811  | 51.376  | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 136909  | 53.113  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 5.78 | 75  | 108160  | 50.462  | ug/l | 100    |
| 37) Ethyl Acetate             | 4.79 | 43  | 120673  | 50.944  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 118489  | 51.006  | ug/l | 93     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052620\  
 Data File : VX016444.D  
 Acq On : 26 May 2020 22:37  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 5/27/2020 12:26:57 PM

Quant Time: May 27 06:37:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052620W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 26 16:32:50 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 117985   | 49.699   | ug/l   | 98       |
| 40) Benzene                    | 6.12  | 78   | 326876   | 51.096   | ug/l   | 98       |
| 41) Methacrylonitrile          | 5.00  | 41   | 62817    | 49.596   | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.17  | 62   | 117470   | 50.305   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.42  | 43   | 194669   | 51.232   | ug/l   | 100      |
| 44) Trichloroethene            | 7.19  | 130  | 101369   | 48.341   | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 80986    | 50.688   | ug/l   | 100      |
| 46) Dibromomethane             | 7.64  | 93   | 59205    | 50.854   | ug/l   | 97       |
| 47) Bromodichloromethane       | 7.88  | 83   | 121474   | 51.660   | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.74  | 41   | 90541    | 52.289   | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 44575    | 1000.418 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 624864   | 260.208  | ug/l   | 100      |
| 52) Toluene                    | 8.77  | 92   | 217474   | 52.980   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 134876   | 50.401   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 136581   | 49.643   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 87346    | 52.183   | ug/l   | 97       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 134564   | 53.422   | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 146821   | 52.904   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 335931   | 250.032  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.48  | 43   | 493836   | 267.071  | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.57  | 129  | 103608   | 53.828   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 97654    | 53.162   | ug/l   | 98       |
| 64) Tetrachloroethene          | 9.32  | 164  | 116102   | 46.857   | ug/l   | 97       |
| 65) Chlorobenzene              | 10.12 | 112  | 239109   | 50.963   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 91315    | 50.123   | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.24 | 91   | 413177   | 50.574   | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.34 | 106  | 328370   | 102.784  | ug/l   | 99       |
| 69) o-Xylene                   | 10.68 | 106  | 156702   | 51.615   | ug/l   | 99       |
| 70) Styrene                    | 10.70 | 104  | 267900   | 52.270   | ug/l   | 100      |
| 71) Bromoform                  | 10.84 | 173  | 78033    | 51.884   | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.00 | 105  | 407334   | 49.012   | ug/l   | 100      |
| 74) N-amyl acetate             | 10.88 | 43   | 168206   | 47.580   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 112539   | 53.606   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 124382m  | 48.683   | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 107311   | 49.866   | ug/l   | 99       |
| 78) n-propylbenzene            | 11.34 | 91   | 456360   | 48.567   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 270208   | 48.338   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 337586   | 48.586   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 48450    | 45.602   | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 325090   | 48.355   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 297001   | 49.987   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 346235   | 49.445   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.93 | 105  | 372301   | 49.461   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 347424   | 49.404   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 186953   | 48.937   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 192357   | 49.742   | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.37 | 91   | 287912   | 47.191   | ug/l   | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 62509    | 49.049   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 187483   | 49.802   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 31928    | 49.148   | ug/l   | 96       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052620\  
Data File : VX016444.D  
Acq On : 26 May 2020 22:37  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

MMDadoda  
5/27/2020 12:26:57 PM

Quant Time: May 27 06:37:37 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052620W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 26 16:32:50 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 110926   | 47.340 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 35998    | 42.604 | ug/l  | 98       |
| 95) Naphthalene            | 13.82 | 128  | 416517   | 49.608 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 110168   | 48.645 | ug/l  | 98       |

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

