

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061918\  
 Data File : VX002733.D  
 Acq On : 20 Jun 2018 00:43  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 6/20/2018 6:26:58 PM

Quant Time: Jun 20 07:06:55 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061518W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 01:37:33 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 228916   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 321770   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 313879   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 196613   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response   | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|------------|--------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 153332     | 44.08  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 88.16% |       |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 123107     | 47.94  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 95.88% |       |          |
| 50) Toluene-d8              | 8.72  | 98   | 448341     | 45.98  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 91.96% |       |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 173959     | 47.08  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 94.16% |       |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 118509   | 48.77  | ug/l  | 98     |
| 3) Chloromethane              | 1.32 | 50   | 124039   | 42.91  | ug/l  | 97     |
| 4) Vinyl Chloride             | 1.40 | 62   | 137626   | 45.88  | ug/l  | 99     |
| 5) Bromomethane               | 1.64 | 94   | 68887    | 38.06  | ug/l  | 99     |
| 6) Chloroethane               | 1.72 | 64   | 96643    | 48.88  | ug/l  | 99     |
| 7) Trichlorofluoromethane     | 1.92 | 101  | 237253   | 48.68  | ug/l  | 98     |
| 8) Diethyl Ether              | 2.19 | 74   | 83950    | 45.29  | ug/l  | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101  | 131993   | 48.45  | ug/l  | 99     |
| 10) Methyl Iodide             | 2.51 | 142  | 140563   | 39.45  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 3.09 | 59   | 176572   | 245.53 | ug/l  | 98     |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 118919   | 46.49  | ug/l  | 99     |
| 13) Acrolein                  | 2.30 | 56   | 105352   | 310.78 | ug/l  | 100    |
| 14) Allyl chloride            | 2.73 | 41   | 231898   | 45.66  | ug/l  | 99     |
| 15) Acrylonitrile             | 3.15 | 53   | 376245   | 239.76 | ug/l  | 99     |
| 16) Acetone                   | 2.45 | 43   | 357844   | 233.16 | ug/l  | 99     |
| 17) Carbon Disulfide          | 2.57 | 76   | 306580   | 50.54  | ug/l  | 98     |
| 18) Methyl Acetate            | 2.78 | 43   | 201336   | 49.24  | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 3.21 | 73   | 436312   | 45.47  | ug/l  | 100    |
| 20) Methylene Chloride        | 2.86 | 84   | 133627   | 42.46  | ug/l  | 98     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96   | 127461   | 45.93  | ug/l  | 98     |
| 22) Diisopropyl ether         | 3.88 | 45   | 430413   | 46.84  | ug/l  | 98     |
| 23) Vinyl Acetate             | 3.83 | 43   | 1845282  | 239.95 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 248934   | 49.92  | ug/l  | 100    |
| 25) 2-Butanone                | 4.71 | 43   | 513079   | 254.56 | ug/l  | 98     |
| 26) 2,2-Dichloropropane       | 4.59 | 77   | 132195   | 36.89  | ug/l  | 98     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96   | 135250   | 47.90  | ug/l  | 92     |
| 28) Bromochloromethane        | 5.02 | 49   | 105888   | 45.34  | ug/l  | 97     |
| 29) Tetrahydrofuran           | 5.17 | 42   | 335249   | 253.80 | ug/l  | 98     |
| 30) Chloroform                | 5.22 | 83   | 240432   | 50.00  | ug/l  | 100    |
| 31) Cyclohexane               | 5.57 | 56   | 197486   | 48.10  | ug/l  | 94     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97   | 209646   | 52.12  | ug/l  | 100    |
| 36) 1,1-Dichloropropene       | 5.80 | 75   | 173485   | 50.77  | ug/l  | 100    |
| 37) Ethyl Acetate             | 4.87 | 43   | 201735   | 52.15  | ug/l  | 100    |
| 38) Carbon Tetrachloride      | 5.79 | 117  | 191048   | 56.14  | ug/l  | 95     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 6/20/2018 6:26:58 PM

Quant Time: Jun 20 07:06:55 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061518W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 01:37:33 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 199907   | 50.04   | ug/l  | 96       |
| 40) Benzene                    | 6.15  | 78   | 519734   | 50.72   | ug/l  | 100      |
| 41) Methacrylonitrile          | 5.07  | 41   | 110845   | 50.75   | ug/l  | 98       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 201253   | 50.73   | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.47  | 43   | 320924   | 50.08   | ug/l  | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 150421   | 50.86   | ug/l  | 100      |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 134898   | 50.02   | ug/l  | 98       |
| 46) Dibromomethane             | 7.67  | 93   | 92952    | 51.53   | ug/l  | 97       |
| 47) Bromodichloromethane       | 7.90  | 83   | 176804   | 55.57   | ug/l  | 100      |
| 48) Methyl methacrylate        | 7.78  | 41   | 167824   | 51.25   | ug/l  | 98       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 68915    | 1111.20 | ug/l  | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 1086443  | 264.04  | ug/l  | 99       |
| 52) Toluene                    | 8.79  | 92   | 335688   | 51.36   | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 198638   | 47.30   | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene    | 9.04  | 75   | 183581   | 45.97   | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 137482   | 52.05   | ug/l  | 98       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 209185   | 51.46   | ug/l  | 97       |
| 57) 1,3-Dichloropropane        | 9.38  | 76   | 225560   | 50.49   | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 444032   | 225.86  | ug/l  | 97       |
| 59) 2-Hexanone                 | 9.50  | 43   | 840557   | 271.09  | ug/l  | 98       |
| 60) Dibromochloromethane       | 9.59  | 129  | 146357   | 49.32   | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 146982   | 53.73   | ug/l  | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 168294   | 48.30   | ug/l  | 96       |
| 65) Chlorobenzene              | 10.14 | 112  | 387296   | 50.24   | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 143221   | 54.50   | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.26 | 91   | 656005   | 50.46   | ug/l  | 99       |
| 68) m/p-Xylenes                | 10.36 | 106  | 514353   | 102.56  | ug/l  | 99       |
| 69) o-Xylene                   | 10.70 | 106  | 249233   | 50.58   | ug/l  | 99       |
| 70) Styrene                    | 10.71 | 104  | 423173   | 52.22   | ug/l  | 99       |
| 71) Bromoform                  | 10.86 | 173  | 115384   | 48.40   | ug/l  | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 672328   | 51.13   | ug/l  | 100      |
| 74) N-amyl acetate             | 6.47  | 43   | 320924   | 49.12   | ug/l  | # 100    |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 209830   | 54.03   | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 210207m  | 56.66   | ug/l  |          |
| 77) Bromobenzene               | 11.26 | 156  | 191076   | 52.16   | ug/l  | 96       |
| 78) n-propylbenzene            | 11.37 | 91   | 766403   | 50.82   | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 456673   | 50.72   | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 574470   | 51.69   | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 51189    | 44.64   | ug/l  | 97       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 542426   | 51.05   | ug/l  | 99       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 560506   | 52.36   | ug/l  | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 589367   | 51.97   | ug/l  | 98       |
| 85) sec-Butylbenzene           | 11.95 | 105  | 685608   | 51.50   | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 616756   | 51.21   | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 340055   | 50.62   | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 350221   | 51.23   | ug/l  | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 528703   | 49.76   | ug/l  | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 91092    | 48.60   | ug/l  | 99       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 351812   | 52.03   | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 48086    | 59.12   | ug/l  | 97       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

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6/20/2018 6:26:58 PM

Quant Time: Jun 20 07:06:55 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061518W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 16 01:37:33 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 251841   | 51.32 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 128267   | 49.62 | ug/l  | 99       |
| 95) Naphthalene            | 13.84 | 128  | 726819   | 55.04 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 256261   | 51.99 | ug/l  | 100      |

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

