

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX073018\  
 Data File : VX003728.D  
 Acq On : 30 Jul 2018 17:15  
 Operator : JC/SP  
 Sample : VSTDICCC050  
 Misc : 5.00G/5.0mL/MSVOA X/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

MMDadoda  
 8/1/2018 10:40:08 AM

Quant Time: Jul 31 05:36:13 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 31 05:23:28 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 113765   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 165960   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 150749   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 87015    | 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   | 58027    | 50.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 100.86% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 49147    | 50.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 100.58% |          |
| 50) Toluene-d8              | 8.72  | 98   | 199795   | 49.04 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 98.08%  |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 73246    | 48.76 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 97.52%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85   | 45033    | 46.90  | ug/l  | 100    |
| 3) Chloromethane              | 1.32 | 50   | 58161    | 48.18  | ug/l  | 100    |
| 4) Vinyl Chloride             | 1.40 | 62   | 65963    | 50.80  | ug/l  | 100    |
| 5) Bromomethane               | 1.64 | 94   | 35869    | 45.89  | ug/l  | 100    |
| 6) Chloroethane               | 1.71 | 64   | 37994    | 41.58  | ug/l  | 100    |
| 7) Trichlorofluoromethane     | 1.92 | 101  | 80799    | 68.68  | ug/l  | 100    |
| 8) Diethyl Ether              | 2.19 | 74   | 31876    | 49.54  | ug/l  | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101  | 51833    | 47.99  | ug/l  | 100    |
| 10) Methyl Iodide             | 2.51 | 142  | 64733    | 52.13  | ug/l  | 100    |
| 11) Tert butyl alcohol        | 3.08 | 59   | 45124    | 242.20 | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 48938    | 44.48  | ug/l  | 100    |
| 13) Acrolein                  | 2.29 | 56   | 9326     | 153.00 | ug/l  | 100    |
| 14) Allyl chloride            | 2.73 | 41   | 90115    | 49.99  | ug/l  | 100    |
| 15) Acrylonitrile             | 3.15 | 53   | 116515   | 245.91 | ug/l  | 100    |
| 16) Acetone                   | 2.45 | 43   | 111583   | 253.89 | ug/l  | 100    |
| 17) Carbon Disulfide          | 2.56 | 76   | 156521   | 47.31  | ug/l  | 100    |
| 18) Methyl Acetate            | 2.78 | 43   | 61744    | 49.99  | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 3.20 | 73   | 142272   | 51.40  | ug/l  | 100    |
| 20) Methylene Chloride        | 2.85 | 84   | 57409    | 42.61  | ug/l  | 100    |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96   | 53155    | 47.71  | ug/l  | 100    |
| 22) Diisopropyl ether         | 3.87 | 45   | 163645   | 50.29  | ug/l  | 100    |
| 23) Vinyl Acetate             | 3.82 | 43   | 622831   | 265.39 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 92628    | 48.81  | ug/l  | 100    |
| 25) 2-Butanone                | 4.70 | 43   | 159974   | 249.69 | ug/l  | 100    |
| 26) 2,2-Dichloropropane       | 4.58 | 77   | 72655    | 48.61  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96   | 59389    | 49.46  | ug/l  | 100    |
| 28) Bromochloromethane        | 5.02 | 49   | 42455    | 49.87  | ug/l  | 100    |
| 29) Tetrahydrofuran           | 5.15 | 42   | 100738   | 246.73 | ug/l  | 100    |
| 30) Chloroform                | 5.21 | 83   | 92372    | 49.40  | ug/l  | 100    |
| 31) Cyclohexane               | 5.58 | 56   | 92333    | 50.37  | ug/l  | 100    |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97   | 80581    | 50.14  | ug/l  | 100    |
| 36) 1,1-Dichloropropene       | 5.81 | 75   | 75706    | 48.71  | ug/l  | 100    |
| 37) Ethyl Acetate             | 4.86 | 43   | 60278    | 50.49  | ug/l  | 100    |
| 38) Carbon Tetrachloride      | 5.78 | 117  | 70772    | 49.23  | ug/l  | 100    |

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 Sample : VSTDICCC050  
 Misc : 5.00G/5.0mL/MSVOA X/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDICCC050

Manual Integrations  
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MMDadoda  
 8/1/2018 10:40:08 AM

Quant Time: Jul 31 05:36:13 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 31 05:23:28 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 94133    | 49.33  | ug/l   | 100      |
| 40) Benzene                    | 6.14  | 78   | 224094   | 50.31  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.06  | 41   | 34056    | 50.61  | ug/l   | 100      |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 68706    | 51.07  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.46  | 43   | 97571    | 51.29  | ug/l   | 100      |
| 44) Trichloroethene            | 7.21  | 130  | 61119    | 48.10  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 56209    | 51.32  | ug/l   | 100      |
| 46) Dibromomethane             | 7.67  | 93   | 31878    | 50.51  | ug/l   | 100      |
| 47) Bromodichloromethane       | 7.90  | 83   | 65199    | 51.84  | ug/l   | 100      |
| 48) Methyl methacrylate        | 7.78  | 41   | 49874    | 52.27  | ug/l   | 100      |
| 49) 1,4-Dioxane                | 7.75  | 88   | 19044    | 988.89 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 302368   | 258.65 | ug/l   | 100      |
| 52) Toluene                    | 8.79  | 92   | 139502   | 50.21  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 75753    | 52.73  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 8.44  | 75   | 84458    | 52.74  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 49250    | 51.51  | ug/l   | 100      |
| 56) Ethyl methacrylate         | 9.18  | 69   | 69550    | 52.95  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 82611    | 51.47  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 172334   | 274.28 | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.50  | 43   | 232027   | 260.53 | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.59  | 129  | 50646    | 52.59  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 50258    | 51.48  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 58132    | 49.06  | ug/l   | 100      |
| 65) Chlorobenzene              | 10.14 | 112  | 156395   | 49.65  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 53113    | 51.70  | ug/l   | 100      |
| 67) Ethyl Benzene              | 10.26 | 91   | 268611   | 50.50  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 211739   | 101.76 | ug/l   | 100      |
| 69) o-Xylene                   | 10.70 | 106  | 99239    | 51.36  | ug/l   | 100      |
| 70) Styrene                    | 10.71 | 104  | 169278   | 52.08  | ug/l   | 100      |
| 71) Bromoform                  | 10.86 | 173  | 36677    | 51.93  | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 272203   | 49.97  | ug/l   | 100      |
| 74) N-amyl acetate             | 6.46  | 43   | 97571    | 56.32  | ug/l # | 56       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 70982    | 50.12  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 60559m   | 50.49  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 71136    | 50.09  | ug/l   | 100      |
| 78) n-propylbenzene            | 11.36 | 91   | 326218   | 49.43  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 184361   | 49.21  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 232034   | 43.66  | ug/l # | 66       |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 21470    | 53.02  | ug/l   | 100      |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 222930   | 49.05  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 230945   | 50.22  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 239290   | 50.00  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.95 | 105  | 292664   | 49.74  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 266922   | 56.58  | ug/l # | 70       |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 139690   | 48.62  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 141173   | 48.16  | ug/l   | 100      |
| 89) n-Butylbenzene             | 12.39 | 91   | 251692   | 49.45  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 39802    | 50.13  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 131534   | 49.16  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 14224    | 50.62  | ug/l   | 100      |

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Sample : VSTDICCC050  
Misc : 5.00G/5.0mL/MSVOA X/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050

Manual Integrations  
APPROVED

MMDadoda  
8/1/2018 10:40:08 AM

Quant Time: Jul 31 05:36:13 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X073018S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 31 05:23:28 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 105031   | 49.49 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 65644    | 48.37 | ug/l  | 100      |
| 95) Naphthalene            | 13.83 | 128  | 236409   | 52.13 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 96764    | 50.23 | ug/l  | 100      |

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

