

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071918\  
 Data File : VX003465.D  
 Acq On : 19 Jul 2018 14:21  
 Operator : JC/MD  
 Sample : VSTDICCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

MMDadoda  
 7/20/2018 5:22:08 PM

Quant Time: Jul 19 15:15:59 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071918W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 19 15:12:57 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 330761   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 470723   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 424112   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 259217   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 185980   | 37.00 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 74.00% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 170380   | 45.35 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.70% |      |
| 50) Toluene-d8            | 8.72   | 98  | 653436   | 45.81 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.62% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 239163   | 44.25 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 88.50% |      |

## Target Compounds

|                               |      |     |         |        |        | Qvalue |
|-------------------------------|------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 128401  | 36.57  | ug/l   | 99     |
| 3) Chloromethane              | 1.32 | 50  | 161922  | 38.77  | ug/l   | 97     |
| 4) Vinyl Chloride             | 1.40 | 62  | 211637  | 48.83  | ug/l   | 95     |
| 5) Bromomethane               | 1.64 | 94  | 80866   | 30.92  | ug/l   | 97     |
| 6) Chloroethane               | 1.71 | 64  | 119009  | 41.66  | ug/l   | 99     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 260184  | 36.95  | ug/l   | 98     |
| 8) Diethyl Ether              | 2.19 | 74  | 115236  | 43.02  | ug/l   | 90     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 168083  | 42.70  | ug/l   | 97     |
| 10) Methyl Iodide             | 2.51 | 142 | 216062  | 44.57  | ug/l   | 93     |
| 11) Tert butyl alcohol        | 3.07 | 59  | 192837  | 185.59 | ug/l   | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 157960  | 42.74  | ug/l   | 84     |
| 13) Acrolein                  | 2.29 | 56  | 86171   | 163.54 | ug/l   | 98     |
| 14) Allyl chloride            | 2.73 | 41  | 284126  | 38.72  | ug/l   | 86     |
| 15) Acrylonitrile             | 3.15 | 53  | 464042  | 204.66 | ug/l   | 98     |
| 16) Acetone                   | 2.45 | 43  | 345281  | 155.70 | ug/l # | 87     |
| 17) Carbon Disulfide          | 2.57 | 76  | 444300  | 50.69  | ug/l   | 98     |
| 18) Methyl Acetate            | 2.78 | 43  | 220821  | 37.38  | ug/l   | 93     |
| 19) Methyl tert-butyl Ether   | 3.21 | 73  | 529029  | 38.16  | ug/l   | 100    |
| 20) Methylene Chloride        | 2.85 | 84  | 180563  | 39.71  | ug/l   | 90     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 172410  | 43.00  | ug/l   | 90     |
| 22) Diisopropyl ether         | 3.87 | 45  | 532961  | 40.14  | ug/l   | 97     |
| 23) Vinyl Acetate             | 3.82 | 43  | 2205175 | 198.45 | ug/l   | 95     |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 313021  | 43.44  | ug/l   | 98     |
| 25) 2-Butanone                | 4.71 | 43  | 589053  | 202.27 | ug/l   | 92     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 240609  | 46.47  | ug/l   | 95     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 197101  | 48.31  | ug/l   | 99     |
| 28) Bromochloromethane        | 5.02 | 49  | 138394  | 41.01  | ug/l   | 85     |
| 29) Tetrahydrofuran           | 5.17 | 42  | 389705  | 204.18 | ug/l   | 89     |
| 30) Chloroform                | 5.21 | 83  | 305746  | 44.00  | ug/l   | 99     |
| 31) Cyclohexane               | 5.57 | 56  | 281090  | 47.38  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 262171  | 45.11  | ug/l   | 96     |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 241581  | 48.32  | ug/l   | 98     |
| 37) Ethyl Acetate             | 4.86 | 43  | 229416  | 40.54  | ug/l # | 94     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 243583  | 48.93  | ug/l   | 93     |

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 Sample : VSTDICCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
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MMDadoda  
 7/20/2018 5:22:08 PM

Quant Time: Jul 19 15:15:59 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071918W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 19 15:12:57 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 283425   | 48.49  | ug/l   | 95       |
| 40) Benzene                    | 6.15  | 78   | 719319   | 47.98  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.07  | 41   | 129287   | 40.47  | ug/l   | 91       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 225297   | 38.82  | ug/l   | 94       |
| 43) Isopropyl Acetate          | 6.46  | 43   | 366579   | 39.10  | ug/l # | 92       |
| 44) Trichloroethene            | 7.21  | 130  | 213675   | 49.38  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 185037   | 46.90  | ug/l   | 100      |
| 46) Dibromomethane             | 7.67  | 93   | 119509   | 45.28  | ug/l   | 93       |
| 47) Bromodichloromethane       | 7.90  | 83   | 224208   | 48.17  | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.78  | 41   | 187375   | 39.11  | ug/l # | 82       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 87339    | 962.65 | ug/l # | 94       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 1184763  | 196.82 | ug/l   | 90       |
| 52) Toluene                    | 8.79  | 92   | 462411   | 48.36  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 282440   | 51.57  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.04  | 75   | 254671   | 50.20  | ug/l # | 88       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 184834   | 47.84  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 274239   | 46.12  | ug/l # | 81       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 298003   | 45.60  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 649120   | 225.70 | ug/l   | 96       |
| 59) 2-Hexanone                 | 9.50  | 43   | 897302   | 197.82 | ug/l   | 87       |
| 60) Dibromochloromethane       | 9.59  | 129  | 190491   | 51.07  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 192921   | 48.21  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 251760   | 53.48  | ug/l   | 98       |
| 65) Chlorobenzene              | 10.14 | 112  | 526184   | 50.52  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 187917   | 52.92  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.26 | 91   | 869795   | 49.51  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.36 | 106  | 692383   | 102.17 | ug/l   | 95       |
| 69) o-Xylene                   | 10.70 | 106  | 336000   | 50.47  | ug/l   | 95       |
| 70) Styrene                    | 10.71 | 104  | 565960   | 51.69  | ug/l   | 96       |
| 71) Bromoform                  | 10.86 | 173  | 152100   | 57.00  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 896176   | 51.69  | ug/l   | 100      |
| 74) N-amyl acetate             | 6.46  | 43   | 366579   | 42.56  | ug/l # | 92       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 254706   | 49.75  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 228291m  | 46.67  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 249380   | 51.63  | ug/l   | 95       |
| 78) n-propylbenzene            | 11.36 | 91   | 1003290  | 50.46  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 589334   | 49.65  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 742363   | 50.67  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 77725    | 60.12  | ug/l   | 88       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 689887   | 49.25  | ug/l   | 96       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 720950   | 51.08  | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 764013   | 51.10  | ug/l   | 97       |
| 85) sec-Butylbenzene           | 11.95 | 105  | 879086   | 50.09  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 799588   | 50.35  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 448952   | 50.69  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 453008   | 50.26  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 670012   | 47.83  | ug/l   | 98       |
| 90) Hexachloroethane           | 12.60 | 117  | 108481   | 49.50  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 451429   | 50.64  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 51586    | 48.10  | ug/l   | 84       |

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Sample : VSTDICCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050

Manual Integrations  
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7/20/2018 5:22:08 PM

Quant Time: Jul 19 15:15:59 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071918W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jul 19 15:12:57 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 331630   | 51.26 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 158922   | 46.63 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 929022   | 53.36 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 331513   | 51.02 | ug/l  | 100      |

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

