

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050721\  
 Data File : VX021871.D  
 Acq On : 07 May 2021 13:03  
 Operator : JC/MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX050721

Manual Integrations  
 APPROVED

MMDadoda  
 5/10/2021 2:22:51 PM

Quant Time: May 08 06:02:06 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050721W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat May 08 05:38:18 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|------------|---------|-------|----------|
| -----                        |                |      |            |         |       |          |
| Internal Standards           |                |      |            |         |       |          |
| 1) Pentafluorobenzene        | 5.562          | 168  | 90837      | 50.00   | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.769          | 114  | 170649     | 50.00   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 155284     | 50.00   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 75345      | 50.00   | ug/l  | 0.00     |
|                              |                |      |            |         |       |          |
| System Monitoring Compounds  |                |      |            |         |       |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 72099      | 48.23   | ug/l  | -0.01    |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 96.46%  |       |          |
| 35) Dibromofluoromethane     | 5.391          | 113  | 58152      | 49.72   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 99.44%  |       |          |
| 50) Toluene-d8               | 8.653          | 98   | 222000     | 49.74   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 99.48%  |       |          |
| 62) 4-Bromofluorobenzene     | 11.085         | 95   | 88316      | 50.14   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 100.28% |       |          |
|                              |                |      |            |         |       |          |
| Target Compounds             |                |      |            |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 59676      | 49.90   | ug/l  | 98       |
| 3) Chloromethane             | 1.294          | 50   | 68812      | 47.91   | ug/l  | 99       |
| 4) Vinyl Chloride            | 1.374          | 62   | 79884      | 48.17   | ug/l  | 100      |
| 5) Bromomethane              | 1.599          | 94   | 29337      | 48.48   | ug/l  | 92       |
| 6) Chloroethane              | 1.678          | 64   | 44142      | 51.17   | ug/l  | 99       |
| 7) Trichlorofluoromethane    | 1.880          | 101  | 109165     | 47.75   | ug/l  | 96       |
| 8) Diethyl Ether             | 2.136          | 74   | 44292      | 46.16   | ug/l  | 87       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 57342      | 49.33   | ug/l  | 92       |
| 10) Methyl Iodide            | 2.447          | 142  | 68899      | 49.87   | ug/l  | 97       |
| 11) Tert butyl alcohol       | 2.983          | 59   | 86548      | 216.98  | ug/l  | 97       |
| 12) 1,1-Dichloroethene       | 2.312          | 96   | 57086      | 46.34   | ug/l  | 96       |
| 13) Acrolein                 | 2.239          | 56   | 35859      | 217.86  | ug/l  | 99       |
| 14) Allyl chloride           | 2.666          | 41   | 106279     | 47.09   | ug/l  | 98       |
| 15) Acrylonitrile            | 3.074          | 53   | 173343     | 231.28  | ug/l  | 100      |
| 16) Acetone                  | 2.386          | 43   | 168254     | 250.94  | ug/l  | 97       |
| 17) Carbon Disulfide         | 2.508          | 76   | 163665     | 47.78   | ug/l  | 99       |
| 18) Methyl Acetate           | 2.709          | 43   | 84138      | 45.26   | ug/l  | 93       |
| 19) Methyl tert-butyl Ether  | 3.123          | 73   | 190433     | 48.22   | ug/l  | 99       |
| 20) Methylene Chloride       | 2.794          | 84   | 66490      | 48.09   | ug/l  | 94       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 62880      | 47.84   | ug/l  | 97       |
| 22) Diisopropyl ether        | 3.769          | 45   | 200568     | 47.72   | ug/l  | 96       |
| 23) Vinyl Acetate            | 3.727          | 43   | 1001683    | 242.21  | ug/l  | 97       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 117344     | 48.58   | ug/l  | 99       |
| 25) 2-Butanone               | 4.562          | 43   | 274801     | 238.17  | ug/l  | 96       |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 104940     | 48.53   | ug/l  | 100      |
| 27) cis-1,2-Dichloroethene   | 4.495          | 96   | 74727      | 48.16   | ug/l  | 99       |
| 28) Bromochloromethane       | 4.910          | 49   | 54570      | 49.44   | ug/l  | 85       |
| 29) Tetrahydrofuran          | 5.019          | 42   | 158651     | 231.40  | ug/l  | 91       |
| 30) Chloroform               | 5.099          | 83   | 115950     | 47.06   | ug/l  | 99       |
| 31) Cyclohexane              | 5.476          | 56   | 96878      | 49.06   | ug/l  | 95       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 102609     | 47.45   | ug/l  | 98       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 89669      | 49.57   | ug/l  | 99       |
| 37) Ethyl Acetate            | 4.721          | 43   | 105432     | 48.25   | ug/l  | 96       |
| 38) Carbon Tetrachloride     | 5.684          | 117  | 89668      | 49.57   | ug/l  | 99       |
| 39) Methylcyclohexane        | 7.385          | 83   | 102388     | 50.43   | ug/l  | 98       |
| 40) Benzene                  | 6.043          | 78   | 267048     | 49.03   | ug/l  | 99       |

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 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX050721

Manual Integrations  
 APPROVED

MMDadoda  
 5/10/2021 2:22:51 PM

Quant Time: May 08 06:02:06 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050721W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat May 08 05:38:18 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 4.928  | 41   | 56753    | 48.09  | ug/l   | 95       |
| 42) 1,2-Dichloroethane        | 6.092  | 62   | 91443    | 48.99  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 6.348  | 43   | 177348   | 47.98  | ug/l   | 95       |
| 44) Trichloroethene           | 7.129  | 130  | 66251    | 50.06  | ug/l   | 90       |
| 45) 1,2-Dichloropropane       | 7.433  | 63   | 70343    | 49.32  | ug/l   | 97       |
| 46) Dibromomethane            | 7.586  | 93   | 46388    | 48.06  | ug/l   | 89       |
| 47) Bromodichloromethane      | 7.824  | 83   | 95752    | 49.20  | ug/l   | 97       |
| 48) Methyl methacrylate       | 7.696  | 41   | 82338    | 48.41  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 7.665  | 88   | 34540    | 965.40 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone      | 8.580  | 43   | 552042   | 239.85 | ug/l   | 93       |
| 52) Toluene                   | 8.720  | 92   | 169486   | 48.75  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 8.982  | 75   | 112430   | 49.57  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 118506   | 49.88  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 68572    | 49.34  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 9.122  | 69   | 116301   | 47.63  | ug/l # | 90       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 118076   | 49.66  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 288984   | 241.67 | ug/l   | 98       |
| 59) 2-Hexanone                | 9.433  | 43   | 436970   | 246.45 | ug/l   | 92       |
| 60) Dibromochloromethane      | 9.525  | 129  | 71729    | 47.89  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 71893    | 49.60  | ug/l   | 98       |
| 64) Tetrachloroethene         | 9.275  | 164  | 50672    | 50.72  | ug/l   | 91       |
| 65) Chlorobenzene             | 10.079 | 112  | 177015   | 49.17  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 64855    | 49.07  | ug/l   | 97       |
| 67) Ethyl Benzene             | 10.195 | 91   | 333099   | 50.21  | ug/l   | 100      |
| 68) m/p-Xylenes               | 10.305 | 106  | 259231   | 102.24 | ug/l   | 99       |
| 69) o-Xylene                  | 10.646 | 106  | 123427   | 48.77  | ug/l   | 99       |
| 70) Styrene                   | 10.659 | 104  | 212625   | 50.54  | ug/l   | 99       |
| 71) Bromoform                 | 10.805 | 173  | 50004    | 49.74  | ug/l # | 100      |
| 73) Isopropylbenzene          | 10.963 | 105  | 325336   | 47.76  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.847 | 43   | 169969   | 46.55  | ug/l   | 91       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 115126   | 45.56  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 101246m  | 47.27  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 69038    | 47.05  | ug/l   | 88       |
| 78) n-propylbenzene           | 11.305 | 91   | 397253   | 49.22  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 236159   | 48.30  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 11.457 | 105  | 287509   | 49.11  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.024 | 75   | 45209    | 48.96  | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 281128   | 49.67  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 11.719 | 119  | 276746   | 48.77  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 292219   | 49.76  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 11.896 | 105  | 350537   | 50.31  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 298203   | 50.22  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 137033   | 49.42  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 140801   | 49.09  | ug/l   | 97       |
| 89) n-Butylbenzene            | 12.335 | 91   | 287907   | 52.57  | ug/l   | 98       |
| 90) Hexachloroethane          | 12.542 | 117  | 52497    | 48.91  | ug/l   | 77       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 134105   | 49.01  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 25894    | 47.08  | ug/l   | 86       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 81640    | 49.54  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 32119    | 49.95  | ug/l   | 99       |
| 95) Naphthalene               | 13.780 | 128  | 329330   | 48.76  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 81679    | 48.89  | ug/l   | 97       |

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ALS Vial : 10 Sample Multiplier: 1

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MSVOA\_X  
ClientSampleId :  
ICVVX050721

Manual Integrations  
APPROVED

MMDadoda  
5/10/2021 2:22:51 PM

Quant Time: May 08 06:02:06 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050721W.M  
Quant Title : SW846 8260  
QLast Update : Sat May 08 05:38:18 2021  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

