

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121421\  
 Data File : VX025802.D  
 Acq On : 15 Dec 2021 01:58  
 Operator : JC/MD  
 Sample : VX1214WBSD03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1214WBSD03

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/15/2021  
 Supervised By : Mahesh Dadoda 12/21/2021

Quant Time: Dec 15 07:15:10 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 14 07:02:11 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|-------|----------|
| -----                        |                |      |                     |         |       |          |
| Internal Standards           |                |      |                     |         |       |          |
| 1) Pentafluorobenzene        | 5.556          | 168  | 95454               | 50.000  | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 159475              | 50.000  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 149609              | 50.000  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 72819               | 50.000  | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |       |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 78998               | 57.519  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = 115.040% |         |       |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 64130               | 57.661  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 115.320% |         |       |          |
| 50) Toluene-d8               | 8.653          | 98   | 217866              | 53.763  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = 107.520% |         |       |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 78467               | 50.975  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 101.940% |         |       |          |
| Target Compounds             |                |      |                     |         |       |          |
|                              |                |      |                     |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 18568               | 21.751  | ug/l  | 97       |
| 3) Chloromethane             | 1.294          | 50   | 24593               | 22.124  | ug/l  | 100      |
| 4) Vinyl Chloride            | 1.374          | 62   | 23320               | 19.723  | ug/l  | 100      |
| 5) Bromomethane              | 1.599          | 94   | 18607               | 22.039  | ug/l  | 96       |
| 6) Chloroethane              | 1.685          | 64   | 17545               | 20.487  | ug/l  | 98       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 37644               | 19.274  | ug/l  | 95       |
| 8) Diethyl Ether             | 2.136          | 74   | 17164               | 22.278  | ug/l  | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 20424               | 20.095  | ug/l  | 99       |
| 10) Methyl Iodide            | 2.453          | 142  | 28025               | 21.641  | ug/l  | 99       |
| 11) Tert butyl alcohol       | 2.959          | 59   | 30880               | 112.087 | ug/l  | 96       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 19739               | 19.534  | ug/l  | 98       |
| 13) Acrolein                 | 2.239          | 56   | 16448               | 87.344  | ug/l  | 97       |
| 14) Allyl chloride           | 2.666          | 41   | 35641               | 19.325  | ug/l  | 98       |
| 15) Acrylonitrile            | 3.062          | 53   | 70218               | 109.178 | ug/l  | 99       |
| 16) Acetone                  | 2.380          | 43   | 63157               | 93.125  | ug/l  | 99       |
| 17) Carbon Disulfide         | 2.514          | 76   | 49482               | 17.095  | ug/l  | 100      |
| 18) Methyl Acetate           | 2.703          | 43   | 46128               | 22.036  | ug/l  | 100      |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 80722               | 22.616  | ug/l  | 99       |
| 20) Methylene Chloride       | 2.794          | 84   | 27036               | 21.643  | ug/l  | 96       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 23631               | 20.954  | ug/l  | 98       |
| 22) Diisopropyl ether        | 3.763          | 45   | 80349               | 22.460  | ug/l  | 95       |
| 23) Vinyl Acetate            | 3.721          | 43   | 305678              | 110.419 | ug/l  | 98       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 43449               | 21.271  | ug/l  | 96       |
| 25) 2-Butanone               | 4.556          | 43   | 99992               | 108.248 | ug/l  | 93       |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 22438               | 14.483  | ug/l  | 97       |
| 27) cis-1,2-Dichloroethene   | 4.495          | 96   | 28457               | 21.281  | ug/l  | 96       |
| 28) Bromochloromethane       | 4.891          | 49   | 18967               | 20.605  | ug/l  | 100      |
| 29) Tetrahydrofuran          | 5.007          | 42   | 64171               | 109.264 | ug/l  | 98       |
| 30) Chloroform               | 5.099          | 83   | 47845               | 21.357  | ug/l  | 100      |
| 31) Cyclohexane              | 5.477          | 56   | 34781               | 20.824  | ug/l  | 95       |
| 32) 1,1,1-Trichloroethane    | 5.391          | 97   | 37541               | 19.254  | ug/l  | 99       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 30782               | 20.409  | ug/l  | 99       |
| 37) Ethyl Acetate            | 4.721          | 43   | 37512               | 22.386  | ug/l  | 97       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 32636               | 18.597  | ug/l  | 96       |
| 39) Methylcyclohexane        | 7.385          | 83   | 35333               | 20.936  | ug/l  | 97       |
| 40) Benzene                  | 6.043          | 78   | 98464               | 21.885  | ug/l  | 99       |

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 Sample : VX1214WBSD03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1214WBSD03

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/15/2021  
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Quant Time: Dec 15 07:15:10 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 14 07:02:11 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.922  | 41   | 21131    | 22.786  | ug/l   | 99       |
| 42) 1,2-Dichloroethane        | 6.092  | 62   | 39446    | 23.068  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 56886    | 21.071  | ug/l   | 99       |
| 44) Trichloroethene           | 7.129  | 130  | 26556    | 21.201  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 7.433  | 63   | 25184    | 22.208  | ug/l   | 96       |
| 46) Dibromomethane            | 7.586  | 93   | 19886    | 22.525  | ug/l   | 98       |
| 47) Bromodichloromethane      | 7.824  | 83   | 36118    | 20.758  | ug/l   | 93       |
| 48) Methyl methacrylate       | 7.696  | 41   | 28590    | 22.488  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 13148    | 473.716 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 199467   | 112.865 | ug/l   | 99       |
| 52) Toluene                   | 8.720  | 92   | 61143    | 21.329  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 8.982  | 75   | 30626    | 18.466  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 35969    | 19.821  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 27376    | 22.268  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 39206    | 22.206  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 45186    | 22.408  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 81778    | 104.534 | ug/l   | 99       |
| 59) 2-Hexanone                | 9.433  | 43   | 150577   | 112.450 | ug/l   | 100      |
| 60) Dibromochloromethane      | 9.525  | 129  | 28294    | 20.278  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 28637    | 21.483  | ug/l   | 100      |
| 64) Tetrachloroethene         | 9.275  | 164  | 26917    | 22.555  | ug/l   | 95       |
| 65) Chlorobenzene             | 10.079 | 112  | 67965    | 21.794  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 24732    | 20.309  | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 113693   | 21.559  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.305 | 106  | 89765    | 43.744  | ug/l   | 98       |
| 69) o-Xylene                  | 10.646 | 106  | 44355    | 21.972  | ug/l   | 99       |
| 70) Styrene                   | 10.659 | 104  | 71733    | 21.354  | ug/l   | 97       |
| 71) Bromoform                 | 10.799 | 173  | 18847    | 18.787  | ug/l # | 98       |
| 73) Isopropylbenzene          | 10.963 | 105  | 114316   | 21.631  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.848 | 43   | 45176    | 21.252  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 41594    | 22.582  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 36014m   | 21.586  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 29047    | 21.427  | ug/l   | 100      |
| 78) n-propylbenzene           | 11.305 | 91   | 127625   | 21.350  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 78337    | 20.607  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 96259    | 21.961  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 7752     | 14.405  | ug/l # | 78       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 88143    | 20.707  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 11.719 | 119  | 91899    | 21.390  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 94974    | 21.690  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 115014   | 22.272  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 95859    | 22.103  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 52274    | 20.696  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 52932    | 20.526  | ug/l   | 98       |
| 89) n-Butylbenzene            | 12.335 | 91   | 75925    | 20.988  | ug/l   | 98       |
| 90) Hexachloroethane          | 12.536 | 117  | 13257    | 15.554  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 52965    | 21.958  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 7575     | 18.301  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 26895    | 20.627  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 11094    | 21.622  | ug/l   | 97       |
| 95) Naphthalene               | 13.780 | 128  | 93919    | 20.382  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 27751    | 21.126  | ug/l   | 98       |

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ALS Vial : 49 Sample Multiplier: 1

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MSVOA\_X  
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Manual Integrations  
APPROVED

Reviewed By :John Carlone 12/15/2021  
Supervised By :Mahesh Dadoda 12/21/2021

Quant Time: Dec 15 07:15:10 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 14 07:02:11 2021  
Response via : Initial Calibration

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

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

