

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX041222\  
 Data File : VX028057.D  
 Acq On : 12 Apr 2022 15:32  
 Operator : JC/MD  
 Sample : VX0412WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0412WBS01

Quant Time: Apr 13 01:11:54 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X041222W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 12 22:07:23 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 04/13/2022  
 Supervised By : Mahesh Dadoda 04/13/2022

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 200665     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 326889     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 302991     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 154926     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 129009     | 47.388  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 94.780% |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 104793     | 48.923  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 97.840% |        |          |
| 50) Toluene-d8               | 8.653          | 98   | 399089     | 49.956  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 99.920% |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 137202     | 45.997  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 92.000% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 34998      | 17.963  | ug/l   | 97       |
| 3) Chloromethane             | 1.288          | 50   | 41978      | 19.468  | ug/l   | 95       |
| 4) Vinyl Chloride            | 1.374          | 62   | 48645      | 18.765  | ug/l   | 99       |
| 5) Bromomethane              | 1.605          | 94   | 81319      | 29.579  | ug/l   | 98       |
| 6) Chloroethane              | 1.685          | 64   | 36255      | 18.722  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 91478      | 17.993  | ug/l   | 100      |
| 8) Diethyl Ether             | 2.136          | 74   | 33559      | 17.224  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 35883      | 17.741  | ug/l   | 96       |
| 10) Methyl Iodide            | 2.453          | 142  | 37653      | 15.986  | ug/l   | 96       |
| 11) Tert butyl alcohol       | 2.971          | 59   | 53503      | 84.666  | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 35243      | 17.794  | ug/l   | 97       |
| 13) Acrolein                 | 2.239          | 56   | 30072      | 85.826  | ug/l   | 96       |
| 14) Allyl chloride           | 2.666          | 41   | 57601      | 16.432  | ug/l # | 86       |
| 15) Acrylonitrile            | 3.062          | 53   | 112274     | 85.740  | ug/l   | 97       |
| 16) Acetone                  | 2.380          | 43   | 101664     | 89.631  | ug/l   | 91       |
| 17) Carbon Disulfide         | 2.514          | 76   | 95080      | 18.267  | ug/l   | 99       |
| 18) Methyl Acetate           | 2.703          | 43   | 50030      | 16.530  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 131547     | 17.684  | ug/l   | 99       |
| 20) Methylene Chloride       | 2.788          | 84   | 39663      | 17.556  | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 39911      | 16.821  | ug/l   | 94       |
| 22) Diisopropyl ether        | 3.757          | 45   | 129527     | 17.219  | ug/l # | 74       |
| 23) Vinyl Acetate            | 3.721          | 43   | 600252     | 89.803  | ug/l   | 94       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 72869      | 17.895  | ug/l   | 99       |
| 25) 2-Butanone               | 4.556          | 43   | 168250     | 85.815  | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 68386      | 18.089  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 47686      | 17.830  | ug/l   | 98       |
| 28) Bromochloromethane       | 4.897          | 49   | 34421      | 19.665  | ug/l   | 89       |
| 29) Tetrahydrofuran          | 5.007          | 42   | 107677     | 84.027  | ug/l   | 91       |
| 30) Chloroform               | 5.092          | 83   | 79292      | 17.511  | ug/l   | 93       |
| 31) Cyclohexane              | 5.470          | 56   | 66547      | 17.778  | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 71507      | 17.435  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 58202      | 17.803  | ug/l   | 99       |
| 37) Ethyl Acetate            | 4.715          | 43   | 65679      | 17.246  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 61999      | 17.764  | ug/l   | 98       |
| 39) Methylcyclohexane        | 7.385          | 83   | 70424      | 18.223  | ug/l   | 96       |
| 40) Benzene                  | 6.044          | 78   | 171966     | 18.090  | ug/l   | 98       |

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 Sample : VX0412WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0412WBS01

Quant Time: Apr 13 01:11:54 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X041222W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 12 22:07:23 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 04/13/2022  
 Supervised By : Mahesh Dadoda 04/13/2022

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.916  | 41   | 34898    | 17.224  | ug/l   | 90       |
| 42) 1,2-Dichloroethane        | 6.092  | 62   | 63990    | 17.826  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 110419   | 17.403  | ug/l   | 93       |
| 44) Trichloroethene           | 7.129  | 130  | 46773    | 18.503  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 7.434  | 63   | 43225    | 18.043  | ug/l   | 96       |
| 46) Dibromomethane            | 7.586  | 93   | 31915    | 18.058  | ug/l   | 94       |
| 47) Bromodichloromethane      | 7.824  | 83   | 62269    | 18.230  | ug/l   | 97       |
| 48) Methyl methacrylate       | 7.696  | 41   | 48319    | 16.682  | ug/l # | 82       |
| 49) 1,4-Dioxane               | 7.671  | 88   | 23156    | 358.122 | ug/l # | 93       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 342311   | 84.620  | ug/l   | 90       |
| 52) Toluene                   | 8.720  | 92   | 113702   | 17.928  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 67523    | 17.501  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 70479    | 17.612  | ug/l # | 86       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 45537    | 17.712  | ug/l   | 100      |
| 56) Ethyl methacrylate        | 9.116  | 69   | 68726    | 17.006  | ug/l # | 80       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 75414    | 17.694  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 147872   | 81.068  | ug/l   | 100      |
| 59) 2-Hexanone                | 9.433  | 43   | 265692   | 83.863  | ug/l   | 86       |
| 60) Dibromochloromethane      | 9.525  | 129  | 45667    | 16.616  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 48259    | 17.235  | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.275  | 164  | 44208    | 18.389  | ug/l   | 97       |
| 65) Chlorobenzene             | 10.079 | 112  | 120662   | 18.251  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 45150    | 18.483  | ug/l   | 97       |
| 67) Ethyl Benzene             | 10.195 | 91   | 213089   | 18.303  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.305 | 106  | 168730   | 34.709  | ug/l   | 100      |
| 69) o-Xylene                  | 10.640 | 106  | 81069    | 17.155  | ug/l   | 99       |
| 70) Styrene                   | 10.659 | 104  | 134443   | 17.771  | ug/l   | 98       |
| 71) Bromoform                 | 10.799 | 173  | 33113    | 17.230  | ug/l # | 98       |
| 73) Isopropylbenzene          | 10.963 | 105  | 216978   | 19.715  | ug/l   | 98       |
| 74) N-amyl acetate            | 10.841 | 43   | 90818    | 19.093  | ug/l # | 87       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 70996    | 18.465  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 65328m   | 18.941  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 51247    | 19.061  | ug/l   | 96       |
| 78) n-propylbenzene           | 11.305 | 91   | 252583   | 19.747  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 145870   | 18.805  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 182078   | 19.152  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 22058    | 18.013  | ug/l   | 88       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 171461   | 18.777  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 178035   | 19.355  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 181564   | 19.506  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 224095   | 19.088  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 191119   | 19.212  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 97735    | 18.656  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 100674   | 18.319  | ug/l   | 98       |
| 89) n-Butylbenzene            | 12.335 | 91   | 167534   | 19.676  | ug/l   | 96       |
| 90) Hexachloroethane          | 12.542 | 117  | 32084    | 19.195  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 99435    | 18.996  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 16297    | 19.266  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 59846    | 20.445  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 23947    | 20.275  | ug/l   | 95       |
| 95) Naphthalene               | 13.780 | 128  | 211263   | 20.665  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 59366    | 20.493  | ug/l   | 97       |

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Sample : VX0412WBS01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0412WBS01

Manual Integrations  
APPROVED

Reviewed By :John Carlone 04/13/2022  
Supervised By :Mahesh Dadoda 04/13/2022

Quant Time: Apr 13 01:11:54 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X041222W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 12 22:07:23 2022  
Response via : Initial Calibration

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

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

