

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121422\  
 Data File : VX033413.D  
 Acq On : 14 Dec 2022 11:28  
 Operator : JC/MD  
 Sample : VX1214WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1214WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/15/2022  
 Supervised By : Mahesh Dadoda 12/15/2022

Quant Time: Dec 14 22:47:24 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X120722W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 07 12:43:54 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 139901     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 220145     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 204353     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 102146     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 40758      | 45.412   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 90.820%  |        |          |
| 35) Dibromofluoromethane     | 5.391          | 113  | 46724      | 47.188   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 94.380%  |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 103063     | 49.756   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 99.520%  |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 82387      | 52.018   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 104.040% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 18172      | 18.595   | ug/l   | 95       |
| 3) Chloromethane             | 1.294          | 50   | 19357      | 17.131   | ug/l   | 96       |
| 4) Vinyl Chloride            | 1.374          | 62   | 22190      | 17.199   | ug/l   | 93       |
| 5) Bromomethane              | 1.617          | 94   | 17016      | 17.972   | ug/l   | 97       |
| 6) Chloroethane              | 1.691          | 64   | 17514      | 17.897   | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 1.892          | 101  | 32023      | 13.221   | ug/l   | 98       |
| 8) Diethyl Ether             | 2.136          | 74   | 11616      | 13.277   | ug/l   | 93       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 18322      | 14.260   | ug/l   | 98       |
| 10) Methyl Iodide            | 2.453          | 142  | 21450      | 15.243   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 2.995          | 59   | 25966      | 94.629   | ug/l # | 83       |
| 12) 1,1-Dichloroethene       | 2.325          | 96   | 16866      | 13.298   | ug/l   | 92       |
| 13) Acrolein                 | 2.239          | 56   | 18135      | 60.937   | ug/l   | 99       |
| 14) Allyl chloride           | 2.666          | 41   | 35925      | 17.737   | ug/l   | 97       |
| 15) Acrylonitrile            | 3.068          | 53   | 61224      | 90.072   | ug/l   | 97       |
| 16) Acetone                  | 2.392          | 43   | 66289      | 99.812   | ug/l   | 100      |
| 17) Carbon Disulfide         | 2.514          | 76   | 54952      | 16.881   | ug/l   | 99       |
| 18) Methyl Acetate           | 2.703          | 43   | 35660      | 18.548   | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 80720      | 18.373   | ug/l   | 100      |
| 20) Methylene Chloride       | 2.794          | 84   | 26123      | 17.637   | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 25794      | 18.591   | ug/l   | 99       |
| 22) Diisopropyl ether        | 3.757          | 45   | 80424      | 18.533   | ug/l # | 86       |
| 23) Vinyl Acetate            | 3.721          | 43   | 300854     | 89.321   | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 45887      | 17.997   | ug/l   | 99       |
| 25) 2-Butanone               | 4.562          | 43   | 88618      | 92.958   | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 36065      | 19.234   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 30759      | 18.551   | ug/l   | 97       |
| 28) Bromochloromethane       | 4.903          | 49   | 19618      | 18.380   | ug/l   | 91       |
| 29) Tetrahydrofuran          | 5.013          | 42   | 53412      | 86.476   | ug/l   | 96       |
| 30) Chloroform               | 5.092          | 83   | 52523      | 18.555   | ug/l   | 100      |
| 31) Cyclohexane              | 5.476          | 56   | 40648      | 19.057   | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 46575      | 19.124   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 37063      | 19.199   | ug/l   | 99       |
| 37) Ethyl Acetate            | 4.721          | 43   | 32853      | 18.003   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 42083      | 19.456   | ug/l   | 94       |
| 39) Methylcyclohexane        | 7.379          | 83   | 43197      | 19.991   | ug/l   | 99       |
| 40) Benzene                  | 6.043          | 78   | 107956     | 19.179   | ug/l   | 99       |

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 Sample : VX1214WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1214WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/15/2022  
 Supervised By : Mahesh Dadoda 12/15/2022

Quant Time: Dec 14 22:47:24 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X120722W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 07 12:43:54 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.922  | 41   | 18080    | 17.980  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 42484    | 19.007  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 53324    | 18.161  | ug/l   | 99       |
| 44) Trichloroethene           | 7.129  | 130  | 30946    | 19.941  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 7.427  | 63   | 27864    | 19.357  | ug/l   | 97       |
| 46) Dibromomethane            | 7.580  | 93   | 21275    | 19.401  | ug/l   | 97       |
| 47) Bromodichloromethane      | 7.824  | 83   | 41400    | 19.368  | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.696  | 41   | 27681    | 18.267  | ug/l   | 93       |
| 49) 1,4-Dioxane               | 7.708  | 88   | 13497    | 390.586 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 8.573  | 43   | 178565   | 96.167  | ug/l   | 98       |
| 52) Toluene                   | 8.720  | 92   | 72017    | 19.789  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 39496    | 18.843  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 44297    | 19.474  | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 29872    | 19.527  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 41822    | 19.417  | ug/l   | 93       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 47894    | 19.489  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 88445    | 89.743  | ug/l   | 97       |
| 59) 2-Hexanone                | 9.427  | 43   | 135311   | 98.886  | ug/l   | 97       |
| 60) Dibromochloromethane      | 9.518  | 129  | 33005    | 19.582  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 31819    | 19.554  | ug/l   | 100      |
| 64) Tetrachloroethene         | 9.275  | 164  | 26824    | 19.196  | ug/l   | 97       |
| 65) Chlorobenzene             | 10.079 | 112  | 80697    | 19.501  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 30178    | 19.297  | ug/l   | 98       |
| 67) Ethyl Benzene             | 10.195 | 91   | 143748   | 19.939  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.299 | 106  | 112882   | 40.244  | ug/l   | 97       |
| 69) o-Xylene                  | 10.640 | 106  | 54540    | 19.672  | ug/l   | 98       |
| 70) Styrene                   | 10.652 | 104  | 90863    | 20.011  | ug/l   | 98       |
| 71) Bromoform                 | 10.799 | 173  | 23231    | 18.767  | ug/l # | 99       |
| 73) Isopropylbenzene          | 10.963 | 105  | 145631   | 19.670  | ug/l   | 100      |
| 74) N-amyl acetate            | 10.841 | 43   | 46273    | 18.319  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 43975    | 18.723  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 39094m   | 18.812  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 35654    | 19.071  | ug/l   | 98       |
| 78) n-propylbenzene           | 11.305 | 91   | 163428   | 19.769  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 100042   | 19.582  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 123450   | 20.031  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 10952    | 16.393  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 115899   | 19.509  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 118866   | 19.342  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 121913   | 19.818  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 11.890 | 105  | 144316   | 20.127  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 123344   | 19.953  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 66243    | 19.560  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 67043    | 19.381  | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.335 | 91   | 101519   | 20.051  | ug/l   | 99       |
| 90) Hexachloroethane          | 12.542 | 117  | 19193    | 18.265  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 64682    | 19.104  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 8478     | 16.711  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 38808    | 18.978  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 16286    | 19.889  | ug/l   | 100      |
| 95) Naphthalene               | 13.774 | 128  | 126140   | 18.493  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 38776    | 18.723  | ug/l   | 98       |

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ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1214WBS01

Manual Integrations  
APPROVED

Reviewed By :John Carlone 12/15/2022  
Supervised By :Mahesh Dadoda 12/15/2022

Quant Time: Dec 14 22:47:24 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X120722W.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 07 12:43:54 2022  
Response via : Initial Calibration

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

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

