

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122022\  
 Data File : VX033507.D  
 Acq On : 20 Dec 2022 14:54  
 Operator : JC/MD  
 Sample : VX1220WBS02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1220WBS02

Quant Time: Dec 21 04:14:44 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

### Manual Integrations APPROVED

Reviewed By : John Carlone 12/21/2022  
 Supervised By : Mahesh Dadoda 12/21/2022

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 5.556          | 168  | 119971              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 191253              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 174030              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 88181               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 38193               | 49.623  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = 99.240%  |         |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 45125               | 52.458  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 104.920% |         |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 95346               | 52.984  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = 105.960% |         |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 78354               | 56.945  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 113.900% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.167          | 85   | 17301               | 20.644  | ug/l   | 98       |
| 3) Chloromethane             | 1.295          | 50   | 18177               | 18.759  | ug/l   | 96       |
| 4) Vinyl Chloride            | 1.374          | 62   | 21043               | 19.019  | ug/l   | 99       |
| 5) Bromomethane              | 1.618          | 94   | 12261               | 15.101  | ug/l   | 98       |
| 6) Chloroethane              | 1.691          | 64   | 14453               | 17.222  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 1.892          | 101  | 32815               | 15.798  | ug/l   | 97       |
| 8) Diethyl Ether             | 2.136          | 74   | 11705               | 15.602  | ug/l   | 93       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 25229               | 22.897  | ug/l   | 99       |
| 10) Methyl Iodide            | 2.453          | 142  | 26840               | 22.241  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 3.002          | 59   | 22882               | 97.242  | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 2.325          | 96   | 23417               | 21.530  | ug/l   | 94       |
| 13) Acrolein                 | 2.240          | 56   | 20907               | 81.922  | ug/l   | 95       |
| 14) Allyl chloride           | 2.666          | 41   | 35222               | 20.279  | ug/l   | 98       |
| 15) Acrylonitrile            | 3.069          | 53   | 62736               | 107.629 | ug/l   | 99       |
| 16) Acetone                  | 2.392          | 43   | 57138               | 100.326 | ug/l   | 99       |
| 17) Carbon Disulfide         | 2.514          | 76   | 53720               | 19.244  | ug/l   | 98       |
| 18) Methyl Acetate           | 2.709          | 43   | 38017               | 23.059  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 83206               | 22.086  | ug/l   | 100      |
| 20) Methylene Chloride       | 2.788          | 84   | 26755               | 21.065  | ug/l   | 91       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 25360               | 21.315  | ug/l   | 98       |
| 22) Diisopropyl ether        | 3.758          | 45   | 80198               | 21.551  | ug/l # | 86       |
| 23) Vinyl Acetate            | 3.721          | 43   | 311406              | 107.813 | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 46460               | 21.248  | ug/l   | 97       |
| 25) 2-Butanone               | 4.562          | 43   | 87148               | 106.602 | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 37037               | 23.034  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 30498               | 21.449  | ug/l   | 98       |
| 28) Bromochloromethane       | 4.898          | 49   | 19799               | 21.631  | ug/l   | 91       |
| 29) Tetrahydrofuran          | 5.013          | 42   | 54977               | 103.796 | ug/l   | 95       |
| 30) Chloroform               | 5.099          | 83   | 53186               | 21.911  | ug/l   | 98       |
| 31) Cyclohexane              | 5.471          | 56   | 38268               | 20.921  | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 47879               | 22.925  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 36522               | 21.776  | ug/l   | 99       |
| 37) Ethyl Acetate            | 4.715          | 43   | 32910               | 20.759  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 41486               | 22.078  | ug/l   | 97       |
| 39) Methylcyclohexane        | 7.385          | 83   | 41404               | 22.056  | ug/l   | 98       |
| 40) Benzene                  | 6.038          | 78   | 107109              | 21.904  | ug/l   | 99       |

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 Sample : VX1220WBS02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1220WBS02

Quant Time: Dec 21 04:14:44 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

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/21/2022  
 Supervised By : Mahesh Dadoda 12/21/2022

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.922  | 41   | 19611    | 22.448  | ug/l   | 97       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 42586    | 21.931  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 6.336  | 43   | 55745    | 21.853  | ug/l   | 98       |
| 44) Trichloroethene           | 7.129  | 130  | 30549    | 22.659  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 7.434  | 63   | 27383    | 21.896  | ug/l   | 100      |
| 46) Dibromomethane            | 7.580  | 93   | 21119    | 22.168  | ug/l   | 97       |
| 47) Bromodichloromethane      | 7.824  | 83   | 41114    | 22.139  | ug/l   | 97       |
| 48) Methyl methacrylate       | 7.696  | 41   | 27935    | 21.219  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 7.708  | 88   | 12871    | 428.738 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 181092   | 112.261 | ug/l   | 96       |
| 52) Toluene                   | 8.720  | 92   | 71949    | 22.757  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 39558    | 21.341  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 43055    | 21.788  | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 30230    | 22.746  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 42374    | 22.645  | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 47899    | 22.435  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.245  | 63   | 88444    | 103.299 | ug/l   | 96       |
| 59) 2-Hexanone                | 9.427  | 43   | 135211   | 113.740 | ug/l   | 96       |
| 60) Dibromochloromethane      | 9.525  | 129  | 33011    | 22.544  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 32288    | 22.840  | ug/l   | 98       |
| 64) Tetrachloroethene         | 9.275  | 164  | 26923    | 22.624  | ug/l   | 95       |
| 65) Chlorobenzene             | 10.080 | 112  | 80301    | 22.786  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 30424    | 22.845  | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 141598   | 23.063  | ug/l   | 98       |
| 68) m/p-Xylenes               | 10.299 | 106  | 110399   | 46.217  | ug/l   | 99       |
| 69) o-Xylene                  | 10.640 | 106  | 54450    | 23.061  | ug/l   | 98       |
| 70) Styrene                   | 10.653 | 104  | 90732    | 23.463  | ug/l   | 98       |
| 71) Bromoform                 | 10.799 | 173  | 23723    | 22.504  | ug/l # | 99       |
| 73) Isopropylbenzene          | 10.964 | 105  | 145458   | 22.758  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.842 | 43   | 47802    | 21.921  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 45720    | 22.548  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 40978m   | 22.841  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 35917    | 22.254  | ug/l   | 97       |
| 78) n-propylbenzene           | 11.305 | 91   | 161691   | 22.657  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 100143   | 22.706  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 121109   | 22.764  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 11804    | 20.467  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 115255   | 22.473  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 119446   | 22.514  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 121389   | 22.857  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 11.890 | 105  | 143910   | 23.249  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 120785   | 22.633  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 66693    | 22.812  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 67513    | 22.608  | ug/l   | 98       |
| 89) n-Butylbenzene            | 12.335 | 91   | 98649    | 22.569  | ug/l   | 100      |
| 90) Hexachloroethane          | 12.536 | 117  | 19489    | 21.484  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 65876    | 22.537  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 8968     | 20.476  | ug/l   | 92       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 39045    | 22.118  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 16231    | 22.961  | ug/l   | 99       |
| 95) Naphthalene               | 13.774 | 128  | 131648   | 22.357  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 38691    | 21.641  | ug/l   | 97       |

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Sample : VX1220WBS02  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1220WBS02

Manual Integrations  
APPROVED

Reviewed By :John Carlone 12/21/2022  
Supervised By :Mahesh Dadoda 12/21/2022

Quant Time: Dec 21 04:14:44 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

