

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX072122\  
 Data File : VX030140.D  
 Acq On : 20 Jul 2022 18:21  
 Operator : JC/MD  
 Sample : VX0721WBSD02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0721WBSD02

Quant Time: Jul 21 03:32:35 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X071222W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 13 09:05:23 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/21/2022  
 Supervised By : Mahesh Dadoda 07/21/2022

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 5.556          | 168  | 147794              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.769          | 114  | 277158              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 254731              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 124110              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.964          | 65   | 111899              | 62.203  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 124.400% |         |        |          |
| 35) Dibromofluoromethane     | 5.391          | 113  | 90447               | 51.083  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 102.160% |         |        |          |
| 50) Toluene-d8               | 8.653          | 98   | 325632              | 48.900  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 97.800%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 11.085         | 95   | 121017              | 52.368  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 104.740% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 28889               | 16.549  | ug/l   | 97       |
| 3) Chloromethane             | 1.288          | 50   | 30430               | 19.759  | ug/l   | 96       |
| 4) Vinyl Chloride            | 1.374          | 62   | 29591               | 17.299  | ug/l   | 99       |
| 5) Bromomethane              | 1.599          | 94   | 13487               | 18.560  | ug/l   | 97       |
| 6) Chloroethane              | 1.679          | 64   | 18075               | 18.764  | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 1.880          | 101  | 39873               | 18.049  | ug/l   | 99       |
| 8) Diethyl Ether             | 2.136          | 74   | 17983               | 19.676  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 27899               | 18.499  | ug/l   | 98       |
| 10) Methyl Iodide            | 2.447          | 142  | 24452               | 18.126  | ug/l   | 96       |
| 11) Tert butyl alcohol       | 2.983          | 59   | 52381               | 112.821 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 2.313          | 96   | 26834               | 17.820  | ug/l   | 93       |
| 13) Acrolein                 | 2.239          | 56   | 6192                | 66.963  | ug/l   | 99       |
| 14) Allyl chloride           | 2.660          | 41   | 57730               | 21.939  | ug/l   | 98       |
| 15) Acrylonitrile            | 3.069          | 53   | 135472              | 128.389 | ug/l   | 100      |
| 16) Acetone                  | 2.386          | 43   | 113181              | 133.521 | ug/l   | 94       |
| 17) Carbon Disulfide         | 2.508          | 76   | 66185               | 15.447  | ug/l   | 98       |
| 18) Methyl Acetate           | 2.709          | 43   | 67086               | 26.015  | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 112221              | 23.577  | ug/l   | 97       |
| 20) Methylene Chloride       | 2.788          | 84   | 40559               | 22.633  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 32391               | 20.637  | ug/l   | 93       |
| 22) Diisopropyl ether        | 3.770          | 45   | 123008              | 23.881  | ug/l   | 94       |
| 23) Vinyl Acetate            | 3.727          | 43   | 551957              | 126.583 | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 63487               | 22.243  | ug/l   | 96       |
| 25) 2-Butanone               | 4.568          | 43   | 188108              | 130.274 | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 4.483          | 77   | 34689               | 17.301  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 4.495          | 96   | 39903               | 20.761  | ug/l   | 98       |
| 28) Bromochloromethane       | 4.904          | 49   | 32419               | 26.999  | ug/l   | 98       |
| 29) Tetrahydrofuran          | 5.019          | 42   | 123407              | 125.935 | ug/l   | 97       |
| 30) Chloroform               | 5.099          | 83   | 64514               | 22.681  | ug/l   | 95       |
| 31) Cyclohexane              | 5.477          | 56   | 48895               | 18.749  | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 46337               | 19.932  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 5.702          | 75   | 40587               | 17.747  | ug/l   | 97       |
| 37) Ethyl Acetate            | 4.727          | 43   | 67971               | 23.129  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 5.684          | 117  | 38255               | 17.937  | ug/l   | 97       |
| 39) Methylcyclohexane        | 7.385          | 83   | 49672               | 17.133  | ug/l   | 96       |
| 40) Benzene                  | 6.044          | 78   | 144869              | 20.125  | ug/l   | 98       |

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 Sample : VX0721WBSD02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0721WBSD02

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/21/2022  
 Supervised By : Mahesh Dadoda 07/21/2022

Quant Time: Jul 21 03:32:35 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X071222W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 13 09:05:23 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.934  | 41   | 37657    | 23.798  | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 6.092  | 62   | 53220    | 23.856  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 6.348  | 43   | 100157   | 22.665  | ug/l   | 99       |
| 44) Trichloroethene           | 7.135  | 130  | 36587    | 17.394  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 7.434  | 63   | 39401    | 21.058  | ug/l   | 92       |
| 46) Dibromomethane            | 7.586  | 93   | 26937    | 20.917  | ug/l   | 99       |
| 47) Bromodichloromethane      | 7.830  | 83   | 48710    | 20.845  | ug/l   | 92       |
| 48) Methyl methacrylate       | 7.702  | 41   | 49923    | 24.484  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 7.665  | 88   | 24713    | 466.502 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 8.580  | 43   | 357701   | 122.321 | ug/l   | 98       |
| 52) Toluene                   | 8.720  | 92   | 85282    | 18.657  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 8.982  | 75   | 48496    | 19.980  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.372  | 75   | 55534    | 19.972  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 9.159  | 97   | 40233    | 21.344  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 9.122  | 69   | 61968    | 21.865  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 65939    | 22.020  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 8.251  | 63   | 165979   | 107.854 | ug/l   | 99       |
| 59) 2-Hexanone                | 9.433  | 43   | 278326   | 124.114 | ug/l   | 97       |
| 60) Dibromochloromethane      | 9.525  | 129  | 36088    | 19.651  | ug/l   | 96       |
| 61) 1,2-Dibromoethane         | 9.616  | 107  | 41186    | 20.993  | ug/l   | 97       |
| 64) Tetrachloroethene         | 9.275  | 164  | 37639    | 18.407  | ug/l   | 97       |
| 65) Chlorobenzene             | 10.079 | 112  | 94823    | 18.694  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 33668    | 19.470  | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 160878   | 18.713  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.305 | 106  | 124809   | 37.015  | ug/l   | 97       |
| 69) o-Xylene                  | 10.646 | 106  | 63436    | 18.789  | ug/l   | 98       |
| 70) Styrene                   | 10.659 | 104  | 106798   | 19.059  | ug/l   | 98       |
| 71) Bromoform                 | 10.799 | 173  | 25220    | 18.153  | ug/l # | 98       |
| 73) Isopropylbenzene          | 10.963 | 105  | 156498   | 18.110  | ug/l   | 98       |
| 74) N-amyl acetate            | 10.848 | 43   | 79177    | 20.860  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 64838    | 20.796  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 59839m   | 20.970  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 38497    | 17.805  | ug/l   | 96       |
| 78) n-propylbenzene           | 11.305 | 91   | 181457   | 17.699  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 115387   | 18.791  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 11.457 | 105  | 132035   | 18.132  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 17443    | 17.641  | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 127277   | 18.499  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.719 | 119  | 121866   | 17.451  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 132895   | 18.451  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 11.896 | 105  | 162487   | 17.601  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 130334   | 17.598  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 70900    | 17.747  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 74074    | 18.068  | ug/l   | 100      |
| 89) n-Butylbenzene            | 12.335 | 91   | 118841   | 17.909  | ug/l   | 99       |
| 90) Hexachloroethane          | 12.542 | 117  | 20604    | 16.274  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 75333    | 18.561  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 14488    | 20.351  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 42517    | 17.055  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 15711    | 15.785  | ug/l   | 97       |
| 95) Naphthalene               | 13.780 | 128  | 183293   | 18.523  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 45842    | 18.072  | ug/l   | 97       |

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Sample : VX0721WBSD02  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0721WBSD02

Manual Integrations  
APPROVED

Reviewed By :John Carlone 07/21/2022  
Supervised By :Mahesh Dadoda 07/21/2022

Quant Time: Jul 21 03:32:35 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X071222W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jul 13 09:05:23 2022  
Response via : Initial Calibration

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

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

