

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX042523\  
 Data File : VX035275.D  
 Acq On : 25 Apr 2023 11:46  
 Operator : JC/MD  
 Sample : VSTDICCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 04/25/2023  
 Supervised By : Mahesh Dadoda 04/26/2023

Quant Time: Apr 25 16:07:47 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X042523W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 16:06:05 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 5.549          | 168  | 289726     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 457789     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 410022     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 206468     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 173028     | 49.502   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 99.000%  |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 141027     | 50.192   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 100.380% |        |          |
| 50) Toluene-d8               | 8.646          | 98   | 534138     | 50.393   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 100.780% |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 199577     | 50.053   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 100.100% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 159377     | 51.988   | ug/l   | 100      |
| 3) Chloromethane             | 1.294          | 50   | 136941     | 49.103   | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.373          | 62   | 138435     | 49.492   | ug/l   | 100      |
| 5) Bromomethane              | 1.617          | 94   | 91910      | 49.438   | ug/l   | 99       |
| 6) Chloroethane              | 1.690          | 64   | 80256      | 49.059   | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 1.885          | 101  | 211978     | 48.462   | ug/l   | 99       |
| 8) Diethyl Ether             | 2.135          | 74   | 75427      | 47.295   | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 2.330          | 101  | 142762     | 48.866   | ug/l   | 96       |
| 10) Methyl Iodide            | 2.452          | 142  | 192998     | 52.344   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 3.025          | 59   | 164665     | 259.423  | ug/l # | 89       |
| 12) 1,1-Dichloroethene       | 2.318          | 96   | 136497     | 48.507   | ug/l   | 99       |
| 13) Acrolein                 | 2.239          | 56   | 158685     | 253.534  | ug/l   | 100      |
| 14) Allyl chloride           | 2.666          | 41   | 246606     | 49.799   | ug/l   | 98       |
| 15) Acrylonitrile            | 3.068          | 53   | 397826     | 249.923  | ug/l   | 99       |
| 16) Acetone                  | 2.398          | 43   | 366500     | 241.420  | ug/l   | 96       |
| 17) Carbon Disulfide         | 2.513          | 76   | 342411     | 50.760   | ug/l   | 99       |
| 18) Methyl Acetate           | 2.708          | 43   | 295964     | 50.416   | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 480133     | 49.734   | ug/l   | 99       |
| 20) Methylene Chloride       | 2.788          | 84   | 156192     | 44.871   | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 148893     | 48.719   | ug/l   | 98       |
| 22) Diisopropyl ether        | 3.757          | 45   | 486781     | 49.674   | ug/l   | 95       |
| 23) Vinyl Acetate            | 3.720          | 43   | 1746531    | 259.290  | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 274928     | 49.808   | ug/l   | 99       |
| 25) 2-Butanone               | 4.568          | 43   | 552824     | 249.501  | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 4.470          | 77   | 219319     | 50.717   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 4.483          | 96   | 173186     | 48.209   | ug/l   | 96       |
| 28) Bromochloromethane       | 4.897          | 49   | 120321     | 51.151   | ug/l   | 87       |
| 29) Tetrahydrofuran          | 5.013          | 42   | 352037     | 247.897  | ug/l   | 97       |
| 30) Chloroform               | 5.092          | 83   | 278180     | 49.923   | ug/l   | 94       |
| 31) Cyclohexane              | 5.470          | 56   | 247710     | 49.958   | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 246487     | 50.475   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 209308     | 47.707   | ug/l   | 98       |
| 37) Ethyl Acetate            | 4.714          | 43   | 208773     | 51.294   | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 5.677          | 117  | 213267     | 51.206   | ug/l   | 99       |
| 39) Methylcyclohexane        | 7.378          | 83   | 265657     | 49.744   | ug/l   | 99       |
| 40) Benzene                  | 6.037          | 78   | 615760     | 48.925   | ug/l   | 99       |

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 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
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Reviewed By : John Carlone 04/25/2023  
 Supervised By : Mahesh Dadoda 04/26/2023

Quant Time: Apr 25 16:07:47 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X042523W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 16:06:05 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.921  | 41   | 117821   | 51.314  | ug/l   | 97       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 220856   | 49.217  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 6.336  | 43   | 342941   | 50.933  | ug/l   | 96       |
| 44) Trichloroethene           | 7.122  | 130  | 170380   | 49.142  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 7.427  | 63   | 157620   | 49.675  | ug/l   | 99       |
| 46) Dibromomethane            | 7.580  | 93   | 106836   | 49.031  | ug/l   | 93       |
| 47) Bromodichloromethane      | 7.823  | 83   | 208070   | 51.828  | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.689  | 41   | 172434   | 52.208  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 7.720  | 88   | 79934    | 992.884 | ug/l # | 88       |
| 51) 4-Methyl-2-Pentanone      | 8.573  | 43   | 1038379  | 251.021 | ug/l   | 96       |
| 52) Toluene                   | 8.720  | 92   | 395562   | 49.583  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 227177   | 54.185  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 252959   | 53.379  | ug/l   | 92       |
| 55) 1,1,2-Trichloroethane     | 9.152  | 97   | 157243   | 49.443  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 243040   | 51.300  | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 267479   | 49.172  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 627275   | 264.798 | ug/l   | 95       |
| 59) 2-Hexanone                | 9.433  | 43   | 795329   | 255.928 | ug/l   | 95       |
| 60) Dibromochloromethane      | 9.518  | 129  | 162320   | 53.270  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 165596   | 50.509  | ug/l   | 100      |
| 64) Tetrachloroethene         | 9.274  | 164  | 148880   | 47.422  | ug/l   | 99       |
| 65) Chlorobenzene             | 10.079 | 112  | 422158   | 47.589  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 10.164 | 131  | 155694   | 50.431  | ug/l   | 98       |
| 67) Ethyl Benzene             | 10.195 | 91   | 760033   | 49.473  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.299 | 106  | 581988   | 98.866  | ug/l   | 98       |
| 69) o-Xylene                  | 10.640 | 106  | 285748   | 49.502  | ug/l   | 99       |
| 70) Styrene                   | 10.652 | 104  | 473364   | 50.577  | ug/l   | 98       |
| 71) Bromoform                 | 10.798 | 173  | 114224   | 53.191  | ug/l # | 99       |
| 73) Isopropylbenzene          | 10.963 | 105  | 743899   | 49.289  | ug/l   | 100      |
| 74) N-amyl acetate            | 10.841 | 43   | 296811   | 52.330  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 227468   | 48.558  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 11.237 | 75   | 188187m  | 47.840  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 185633   | 49.480  | ug/l   | 92       |
| 78) n-propylbenzene           | 11.304 | 91   | 858377   | 49.521  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.365 | 91   | 521318   | 48.130  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 637182   | 50.070  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 66204    | 52.062  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 590494   | 48.539  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 620530   | 48.598  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 11.749 | 105  | 636157   | 49.751  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 11.890 | 105  | 780555   | 49.836  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 669103   | 50.230  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 345828   | 48.505  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 347115   | 46.435  | ug/l   | 98       |
| 89) n-Butylbenzene            | 12.335 | 91   | 570103   | 50.698  | ug/l   | 98       |
| 90) Hexachloroethane          | 12.536 | 117  | 108016   | 52.971  | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 336871   | 47.241  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.944 | 75   | 49219    | 52.398  | ug/l   | 86       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 218408   | 48.727  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 93443    | 47.501  | ug/l   | 98       |
| 95) Naphthalene               | 13.774 | 128  | 699327   | 50.680  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 215930   | 47.855  | ug/l   | 99       |

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ALS Vial : 8 Sample Multiplier: 1

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MSVOA\_X  
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Manual Integrations  
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Quant Time: Apr 25 16:07:47 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X042523W.M  
Quant Title : SW846 8260  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

