

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX041222\  
 Data File : VX028055.D  
 Acq On : 12 Apr 2022 14:29  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Apr 13 01:11:13 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        | 5.556          | 168  | 207568     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 329869     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 314449     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 174782     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 112026     | 39.782  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 79.560% |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 90627      | 41.927  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 83.860% |        |          |
| 50) Toluene-d8               | 8.653          | 98   | 351851     | 43.645  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 87.300% |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 129015     | 42.862  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 85.720% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 92569      | 45.931  | ug/l   | 99       |
| 3) Chloromethane             | 1.288          | 50   | 106433     | 47.717  | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.374          | 62   | 121738     | 45.398  | ug/l   | 99       |
| 5) Bromomethane              | 1.605          | 94   | 188560     | 66.834  | ug/l   | 99       |
| 6) Chloroethane              | 1.685          | 64   | 95565      | 43.680  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 239472     | 45.536  | ug/l   | 100      |
| 8) Diethyl Ether             | 2.136          | 74   | 85576      | 42.461  | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 95545      | 45.668  | ug/l   | 97       |
| 10) Methyl Iodide            | 2.453          | 142  | 111707     | 45.849  | ug/l   | 96       |
| 11) Tert butyl alcohol       | 2.989          | 59   | 136148m    | 208.283 | ug/l   |          |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 90930      | 44.382  | ug/l   | 98       |
| 13) Acrolein                 | 2.239          | 56   | 76032      | 218.859 | ug/l   | 99       |
| 14) Allyl chloride           | 2.666          | 41   | 160045     | 44.138  | ug/l   | 89       |
| 15) Acrylonitrile            | 3.062          | 53   | 302990     | 223.690 | ug/l   | 97       |
| 16) Acetone                  | 2.380          | 43   | 277797     | 236.771 | ug/l   | 90       |
| 17) Carbon Disulfide         | 2.514          | 76   | 256994     | 47.732  | ug/l   | 100      |
| 18) Methyl Acetate           | 2.703          | 43   | 135115     | 43.158  | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 367936     | 47.818  | ug/l   | 99       |
| 20) Methylene Chloride       | 2.788          | 84   | 106796     | 45.700  | ug/l   | 90       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 111370     | 45.378  | ug/l   | 99       |
| 22) Diisopropyl ether        | 3.764          | 45   | 373762     | 48.035  | ug/l   | 92       |
| 23) Vinyl Acetate            | 3.721          | 43   | 1696885    | 245.427 | ug/l   | 94       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 199127     | 47.274  | ug/l   | 98       |
| 25) 2-Butanone               | 4.556          | 43   | 464174     | 228.877 | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 191383     | 48.940  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 129433     | 46.785  | ug/l   | 100      |
| 28) Bromochloromethane       | 4.897          | 49   | 81275      | 44.889  | ug/l   | 90       |
| 29) Tetrahydrofuran          | 5.001          | 42   | 298088     | 224.880 | ug/l   | 90       |
| 30) Chloroform               | 5.093          | 83   | 220256     | 47.023  | ug/l   | 98       |
| 31) Cyclohexane              | 5.471          | 56   | 187594     | 48.448  | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 200328     | 47.221  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 160914     | 48.777  | ug/l   | 100      |
| 37) Ethyl Acetate            | 4.715          | 43   | 181825     | 47.313  | ug/l   | 95       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 173268     | 49.197  | ug/l   | 99       |
| 39) Methylcyclohexane        | 7.379          | 83   | 199676     | 51.203  | ug/l   | 96       |
| 40) Benzene                  | 6.037          | 78   | 479595     | 49.995  | ug/l   | 99       |

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Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Apr 13 01:11:13 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         | 4.922  | 41   | 93140    | 45.555  | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 179720   | 49.614  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 303025   | 47.329  | ug/l   | 92       |
| 44) Trichloroethene           | 7.129  | 130  | 126618   | 49.636  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 7.434  | 63   | 117040   | 48.413  | ug/l   | 95       |
| 46) Dibromomethane            | 7.580  | 93   | 86576    | 48.543  | ug/l   | 94       |
| 47) Bromodichloromethane      | 7.824  | 83   | 169481   | 49.169  | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.696  | 41   | 136974   | 46.864  | ug/l # | 83       |
| 49) 1,4-Dioxane               | 7.671  | 88   | 58848    | 901.899 | ug/l # | 96       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 943686   | 231.174 | ug/l   | 91       |
| 52) Toluene                   | 8.720  | 92   | 314723   | 49.175  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 201189   | 51.675  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 204096   | 50.541  | ug/l # | 84       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 125566   | 48.398  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 198215   | 48.604  | ug/l # | 78       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 209234   | 48.648  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 434714   | 236.170 | ug/l   | 99       |
| 59) 2-Hexanone                | 9.433  | 43   | 754029   | 235.851 | ug/l   | 88       |
| 60) Dibromochloromethane      | 9.525  | 129  | 137796   | 49.685  | ug/l   | 96       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 135932   | 48.106  | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.275  | 164  | 122198   | 48.979  | ug/l   | 98       |
| 65) Chlorobenzene             | 10.079 | 112  | 339127   | 49.427  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 126595   | 49.937  | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 613725   | 50.796  | ug/l   | 98       |
| 68) m/p-Xylenes               | 10.305 | 106  | 487966   | 96.719  | ug/l   | 100      |
| 69) o-Xylene                  | 10.640 | 106  | 235772   | 48.075  | ug/l   | 99       |
| 70) Styrene                   | 10.659 | 104  | 401735   | 42.326  | ug/l   | 98       |
| 71) Bromoform                 | 10.799 | 173  | 100916   | 41.980  | ug/l # | 98       |
| 73) Isopropylbenzene          | 10.963 | 105  | 625308   | 50.361  | ug/l   | 100      |
| 74) N-amyl acetate            | 10.842 | 43   | 276817   | 51.586  | ug/l # | 88       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 205392   | 47.350  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 193091m  | 49.624  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 148027   | 48.802  | ug/l   | 99       |
| 78) n-propylbenzene           | 11.305 | 91   | 746829   | 51.754  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 434292   | 49.627  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 546663   | 50.968  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 69727    | 50.471  | ug/l   | 90       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 523483   | 50.815  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 11.719 | 119  | 527869   | 50.867  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 542696   | 51.681  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 11.890 | 105  | 682136   | 51.502  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 583938   | 52.031  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 296981   | 50.249  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 307005   | 49.518  | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.335 | 91   | 515803   | 53.695  | ug/l   | 97       |
| 90) Hexachloroethane          | 12.542 | 117  | 98842    | 52.418  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 292270   | 49.491  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 48919    | 51.262  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 179972   | 54.499  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 71645    | 53.767  | ug/l   | 93       |
| 95) Naphthalene               | 13.780 | 128  | 626550   | 54.324  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 180099   | 55.108  | ug/l   | 95       |

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Manual Integrations  
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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

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