

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX033022\  
 Data File : VX027798.D  
 Acq On : 30 Mar 2022 10:12  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Mar 31 05:45:11 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032922W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 30 04:39:27 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 03/31/2022  
 Supervised By : Mahesh Dadoda 03/31/2022

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 5.556          | 168  | 77436      | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.757          | 114  | 125523     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 107145     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 50959      | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 43023      | 43.060  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 86.120% |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 37147      | 45.848  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 91.700% |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 131334     | 46.070  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 92.140% |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 55221      | 45.583  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 91.160% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 39103      | 55.728  | ug/l   | 99       |
| 3) Chloromethane             | 1.295          | 50   | 30275      | 48.826  | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.374          | 62   | 32816      | 51.604  | ug/l   | 98       |
| 5) Bromomethane              | 1.599          | 94   | 16349      | 57.017  | ug/l   | 98       |
| 6) Chloroethane              | 1.685          | 64   | 19397      | 45.250  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 55516      | 49.766  | ug/l   | 91       |
| 8) Diethyl Ether             | 2.136          | 74   | 19395      | 48.437  | ug/l   | 87       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 37342      | 51.500  | ug/l   | 97       |
| 10) Methyl Iodide            | 2.453          | 142  | 41559      | 49.355  | ug/l   | 91       |
| 11) Tert butyl alcohol       | 2.959          | 59   | 40749      | 212.321 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 32035      | 48.153  | ug/l   | 95       |
| 13) Acrolein                 | 2.233          | 56   | 34932      | 243.018 | ug/l   | 97       |
| 14) Allyl chloride           | 2.660          | 41   | 60496      | 49.529  | ug/l # | 90       |
| 15) Acrylonitrile            | 3.062          | 53   | 108882     | 241.613 | ug/l   | 99       |
| 16) Acetone                  | 2.380          | 43   | 121263     | 274.238 | ug/l   | 90       |
| 17) Carbon Disulfide         | 2.508          | 76   | 61151      | 44.933  | ug/l   | 98       |
| 18) Methyl Acetate           | 2.703          | 43   | 50133      | 45.992  | ug/l   | 90       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 129475     | 51.081  | ug/l   | 100      |
| 20) Methylene Chloride       | 2.788          | 84   | 37451      | 47.087  | ug/l   | 87       |
| 21) trans-1,2-Dichloroethene | 3.087          | 96   | 33602      | 46.534  | ug/l   | 92       |
| 22) Diisopropyl ether        | 3.757          | 45   | 125403     | 51.230  | ug/l # | 82       |
| 23) Vinyl Acetate            | 3.721          | 43   | 542554     | 256.543 | ug/l   | 94       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 67432      | 48.967  | ug/l   | 99       |
| 25) 2-Butanone               | 4.550          | 43   | 145610     | 226.310 | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 53491      | 48.633  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 42173      | 48.434  | ug/l   | 98       |
| 28) Bromochloromethane       | 4.898          | 49   | 27356      | 46.183  | ug/l   | 98       |
| 29) Tetrahydrofuran          | 5.001          | 42   | 86956      | 210.396 | ug/l   | 91       |
| 30) Chloroform               | 5.093          | 83   | 72504      | 47.362  | ug/l   | 100      |
| 31) Cyclohexane              | 5.471          | 56   | 51757      | 46.862  | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 63717      | 48.116  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 48112      | 47.147  | ug/l   | 99       |
| 37) Ethyl Acetate            | 4.709          | 43   | 52696      | 41.654  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 56974      | 50.534  | ug/l   | 95       |
| 39) Methylcyclohexane        | 7.379          | 83   | 59440      | 49.498  | ug/l   | 91       |
| 40) Benzene                  | 6.038          | 78   | 146391     | 47.337  | ug/l   | 99       |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/31/2022  
 Supervised By : Mahesh Dadoda 03/31/2022

Quant Time: Mar 31 05:45:11 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032922W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 30 04:39:27 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.916  | 41   | 29592    | 43.977  | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 54989    | 44.500  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 6.336  | 43   | 88865    | 43.856  | ug/l   | 95       |
| 44) Trichloroethene           | 7.123  | 130  | 41969    | 49.938  | ug/l   | 85       |
| 45) 1,2-Dichloropropane       | 7.428  | 63   | 40917    | 49.250  | ug/l   | 99       |
| 46) Dibromomethane            | 7.580  | 93   | 30280    | 48.427  | ug/l   | 91       |
| 47) Bromodichloromethane      | 7.824  | 83   | 62778    | 50.412  | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.690  | 41   | 49615    | 46.689  | ug/l # | 81       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 17193    | 819.604 | ug/l # | 92       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 331023   | 235.495 | ug/l   | 87       |
| 52) Toluene                   | 8.720  | 92   | 94041    | 48.277  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 63532    | 50.905  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 66876    | 50.886  | ug/l # | 80       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 41646    | 48.202  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 67412    | 49.265  | ug/l # | 72       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 71464    | 49.152  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 159523   | 233.508 | ug/l   | 95       |
| 59) 2-Hexanone                | 9.427  | 43   | 254786   | 235.406 | ug/l   | 83       |
| 60) Dibromochloromethane      | 9.525  | 129  | 45279    | 50.544  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 42632    | 47.223  | ug/l   | 97       |
| 64) Tetrachloroethene         | 9.275  | 164  | 38001    | 52.309  | ug/l   | 94       |
| 65) Chlorobenzene             | 10.080 | 112  | 104589   | 49.569  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 40748    | 51.465  | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 195598   | 51.085  | ug/l   | 98       |
| 68) m/p-Xylenes               | 10.305 | 106  | 142670   | 101.312 | ug/l   | 87       |
| 69) o-Xylene                  | 10.640 | 106  | 70716    | 51.413  | ug/l   | 88       |
| 70) Styrene                   | 10.659 | 104  | 119287   | 51.024  | ug/l # | 91       |
| 71) Bromoform                 | 10.799 | 173  | 29824    | 47.144  | ug/l # | 100      |
| 73) Isopropylbenzene          | 10.964 | 105  | 193409   | 50.975  | ug/l   | 98       |
| 74) N-amyl acetate            | 10.842 | 43   | 87391    | 51.134  | ug/l # | 84       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 63506    | 49.291  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 61977m   | 51.845  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 44172    | 51.064  | ug/l   | 85       |
| 78) n-propylbenzene           | 11.305 | 91   | 229916   | 50.721  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 141038   | 49.510  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 167505   | 50.878  | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 18573    | 46.941  | ug/l # | 76       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 163350   | 49.969  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 161596   | 50.759  | ug/l   | 86       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 167783   | 51.110  | ug/l   | 96       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 205094   | 52.203  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 172596   | 52.814  | ug/l   | 93       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 83959    | 49.307  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 85455    | 48.716  | ug/l   | 96       |
| 89) n-Butylbenzene            | 12.335 | 91   | 159393   | 54.243  | ug/l   | 95       |
| 90) Hexachloroethane          | 12.543 | 117  | 27294    | 52.007  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 82478    | 49.037  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 15457    | 49.836  | ug/l   | 73       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 52597    | 51.134  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 24424    | 53.678  | ug/l   | 95       |
| 95) Naphthalene               | 13.780 | 128  | 180641   | 50.298  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 51296    | 50.905  | ug/l   | 95       |

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Instrument :  
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ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

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Supervised By : Mahesh Dadoda 03/31/2022

Quant Time: Mar 31 05:45:11 2022  
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Quant Title : SW846 8260  
QLast Update : Wed Mar 30 04:39:27 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

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