

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101223\  
 Data File : VX038270.D  
 Acq On : 12 Oct 2023 20:27  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Oct 13 04:55:48 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 05 15:27:13 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 10/13/2023  
 Supervised By : Mahesh Dadoda 10/13/2023

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 126784     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 219291     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 220719     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 129776     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 99869      | 48.974   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 97.940%  |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 80882      | 51.187   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 102.380% |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 295965     | 49.016   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 98.040%  |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 120110     | 52.471   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 104.940% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.167          | 85   | 57128      | 46.681   | ug/l   | 99       |
| 3) Chloromethane             | 1.295          | 50   | 55798      | 44.735   | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.374          | 62   | 67527      | 48.829   | ug/l   | 100      |
| 5) Bromomethane              | 1.599          | 94   | 99483      | 54.855   | ug/l   | 98       |
| 6) Chloroethane              | 1.679          | 64   | 55112      | 54.075   | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 144045     | 52.733   | ug/l   | 99       |
| 8) Diethyl Ether             | 2.130          | 74   | 51889      | 50.934   | ug/l   | 78       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 62130      | 52.101   | ug/l   | 98       |
| 10) Methyl Iodide            | 2.453          | 142  | 82537      | 48.104   | ug/l   | 94       |
| 11) Tert butyl alcohol       | 2.959          | 59   | 100374     | 221.723  | ug/l # | 92       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 58294      | 50.255   | ug/l   | 90       |
| 13) Acrolein                 | 2.233          | 56   | 88086      | 303.850  | ug/l   | 99       |
| 14) Allyl chloride           | 2.660          | 41   | 94388      | 45.493   | ug/l   | 93       |
| 15) Acrylonitrile            | 3.063          | 53   | 228062     | 245.752  | ug/l   | 99       |
| 16) Acetone                  | 2.380          | 43   | 205769     | 241.775  | ug/l   | 94       |
| 17) Carbon Disulfide         | 2.508          | 76   | 134825     | 40.328   | ug/l   | 99       |
| 18) Methyl Acetate           | 2.703          | 43   | 186003     | 50.964   | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 220820     | 47.799   | ug/l   | 99       |
| 20) Methylene Chloride       | 2.788          | 84   | 72679      | 45.400   | ug/l   | 91       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 67416      | 46.940   | ug/l   | 87       |
| 22) Diisopropyl ether        | 3.758          | 45   | 211836     | 48.715   | ug/l   | 93       |
| 23) Vinyl Acetate            | 3.721          | 43   | 777733     | 243.887  | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 123362     | 46.746   | ug/l   | 99       |
| 25) 2-Butanone               | 4.556          | 43   | 338048     | 246.178  | ug/l   | 91       |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 86655      | 42.058   | ug/l   | 94       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 85223      | 49.824   | ug/l   | 88       |
| 28) Bromochloromethane       | 4.898          | 49   | 62309      | 52.303   | ug/l   | 86       |
| 29) Tetrahydrofuran          | 5.001          | 42   | 214394     | 239.806  | ug/l   | 87       |
| 30) Chloroform               | 5.093          | 83   | 147692     | 51.179   | ug/l   | 98       |
| 31) Cyclohexane              | 5.471          | 56   | 103148     | 46.687   | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 123896     | 50.125   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 102176     | 46.892   | ug/l   | 98       |
| 37) Ethyl Acetate            | 4.709          | 43   | 123059     | 47.553   | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 106626     | 49.743   | ug/l   | 96       |
| 39) Methylcyclohexane        | 7.379          | 83   | 119944     | 46.995   | ug/l   | 93       |
| 40) Benzene                  | 6.038          | 78   | 299517     | 49.146   | ug/l   | 98       |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 10/13/2023  
 Supervised By : Mahesh Dadoda 10/13/2023

Quant Time: Oct 13 04:55:48 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 05 15:27:13 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 4.916  | 41   | 61399    | 47.694   | ug/l # | 86       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 120073   | 49.312   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 184274   | 47.700   | ug/l   | 96       |
| 44) Trichloroethene           | 7.123  | 130  | 81095    | 50.875   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 7.428  | 63   | 78010    | 49.456   | ug/l   | 97       |
| 46) Dibromomethane            | 7.580  | 93   | 61606    | 50.357   | ug/l   | 97       |
| 47) Bromodichloromethane      | 7.824  | 83   | 114320   | 52.528   | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.690  | 41   | 92029    | 49.901   | ug/l # | 85       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 46757    | 1028.852 | ug/l # | 88       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 683241   | 256.407  | ug/l   | 96       |
| 52) Toluene                   | 8.720  | 92   | 198958   | 50.116   | ug/l   | 93       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 115643   | 49.503   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 123803   | 50.441   | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 88370    | 52.041   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 130956   | 50.300   | ug/l   | 91       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 140438   | 51.135   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 311433   | 243.695  | ug/l   | 99       |
| 59) 2-Hexanone                | 9.427  | 43   | 559090   | 260.989  | ug/l   | 95       |
| 60) Dibromochloromethane      | 9.519  | 129  | 89538    | 53.876   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 95470    | 51.990   | ug/l   | 98       |
| 64) Tetrachloroethene         | 9.275  | 164  | 68936    | 48.245   | ug/l   | 98       |
| 65) Chlorobenzene             | 10.080 | 112  | 221794   | 48.021   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 81449    | 52.150   | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 401893   | 48.748   | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.299 | 106  | 315141   | 98.860   | ug/l   | 98       |
| 69) o-Xylene                  | 10.640 | 106  | 154638   | 49.703   | ug/l   | 99       |
| 70) Styrene                   | 10.653 | 104  | 262870   | 51.882   | ug/l   | 96       |
| 71) Bromoform                 | 10.799 | 173  | 69025    | 47.776   | ug/l # | 100      |
| 73) Isopropylbenzene          | 10.964 | 105  | 409320   | 47.031   | ug/l   | 99       |
| 74) N-amyl acetate            | 10.842 | 43   | 173182   | 46.597   | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 11.214 | 83   | 156728   | 49.076   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 142639m  | 48.347   | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 101132   | 47.596   | ug/l   | 91       |
| 78) n-propylbenzene           | 11.305 | 91   | 495592   | 46.571   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 290322   | 46.002   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 355587   | 47.358   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 39839    | 40.282   | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 343819   | 46.038   | ug/l   | 97       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 349388   | 47.621   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 359163   | 47.975   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 452432   | 47.604   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 377556   | 48.150   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 199171   | 46.668   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 203075   | 46.608   | ug/l   | 98       |
| 89) n-Butylbenzene            | 12.329 | 91   | 355697   | 45.548   | ug/l   | 97       |
| 90) Hexachloroethane          | 12.536 | 117  | 64258    | 49.425   | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 197802   | 48.217   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 36563    | 47.353   | ug/l   | 85       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 126479   | 45.968   | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 52074    | 47.022   | ug/l   | 98       |
| 95) Naphthalene               | 13.774 | 128  | 445997   | 46.546   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 123896   | 46.505   | ug/l   | 98       |

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ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

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Quant Time: Oct 13 04:55:48 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 05 15:27:13 2023  
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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