

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX110923\  
 Data File : VX038693.D  
 Acq On : 09 Nov 2023 20:06  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/10/2023  
 Supervised By : Mahesh Dadoda 11/13/2023

Quant Time: Nov 10 03:45:46 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X110723W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 08 03:19:07 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 5.556          | 168  | 309760     | 50.000  | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 475357     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 460362     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 265737     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 183260     | 47.521  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 95.040% |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 165194     | 48.251  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 96.500% |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 580373     | 47.373  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 94.740% |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 233989     | 49.261  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 98.520% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 152334     | 47.356  | ug/l   | 99       |
| 3) Chloromethane             | 1.300          | 50   | 128888     | 46.356  | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.374          | 62   | 143354     | 48.432  | ug/l   | 99       |
| 5) Bromomethane              | 1.599          | 94   | 104675     | 45.817  | ug/l   | 100      |
| 6) Chloroethane              | 1.678          | 64   | 90635      | 48.361  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 251395     | 49.265  | ug/l   | 100      |
| 8) Diethyl Ether             | 2.136          | 74   | 85317      | 48.704  | ug/l   | 75       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 143602     | 47.593  | ug/l   | 90       |
| 10) Methyl Iodide            | 2.453          | 142  | 213485     | 57.290  | ug/l   | 91       |
| 11) Tert butyl alcohol       | 2.959          | 59   | 211255     | 267.971 | ug/l # | 92       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 138921     | 48.056  | ug/l # | 80       |
| 13) Acrolein                 | 2.233          | 56   | 125386     | 209.848 | ug/l   | 100      |
| 14) Allyl chloride           | 2.666          | 41   | 193515     | 46.736  | ug/l # | 93       |
| 15) Acrylonitrile            | 3.062          | 53   | 429027     | 257.868 | ug/l   | 99       |
| 16) Acetone                  | 2.380          | 43   | 350354     | 215.719 | ug/l   | 90       |
| 17) Carbon Disulfide         | 2.514          | 76   | 343068     | 44.663  | ug/l   | 99       |
| 18) Methyl Acetate           | 2.703          | 43   | 381200     | 55.092  | ug/l # | 87       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 473101     | 51.177  | ug/l   | 95       |
| 20) Methylene Chloride       | 2.788          | 84   | 158313     | 48.354  | ug/l # | 82       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 154088     | 48.960  | ug/l   | 84       |
| 22) Diisopropyl ether        | 3.763          | 45   | 392420     | 50.285  | ug/l # | 80       |
| 23) Vinyl Acetate            | 3.721          | 43   | 1358127    | 245.192 | ug/l # | 91       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 252465     | 48.899  | ug/l   | 97       |
| 25) 2-Butanone               | 4.556          | 43   | 575483     | 244.600 | ug/l # | 86       |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 191212     | 42.416  | ug/l   | 93       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 180222     | 49.590  | ug/l   | 83       |
| 28) Bromochloromethane       | 4.897          | 49   | 112295     | 48.397  | ug/l # | 56       |
| 29) Tetrahydrofuran          | 5.001          | 42   | 371569     | 253.836 | ug/l # | 80       |
| 30) Chloroform               | 5.092          | 83   | 291703     | 48.153  | ug/l   | 98       |
| 31) Cyclohexane              | 5.470          | 56   | 194156     | 45.490  | ug/l # | 86       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 256532     | 48.119  | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 198164     | 46.596  | ug/l   | 94       |
| 37) Ethyl Acetate            | 4.715          | 43   | 214071     | 49.301  | ug/l # | 92       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 227374     | 47.824  | ug/l   | 98       |
| 39) Methylcyclohexane        | 7.379          | 83   | 241783     | 45.472  | ug/l   | 89       |
| 40) Benzene                  | 6.037          | 78   | 597829     | 48.805  | ug/l   | 98       |

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 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
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Reviewed By : John Carlone 11/10/2023  
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Quant Time: Nov 10 03:45:46 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X110723W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 08 03:19:07 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 4.916  | 41   | 112812   | 50.997   | ug/l # | 87       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 220639   | 49.920   | ug/l   | 95       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 329427   | 49.349   | ug/l # | 91       |
| 44) Trichloroethene           | 7.123  | 130  | 189748   | 49.786   | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 7.427  | 63   | 147085   | 49.671   | ug/l   | 100      |
| 46) Dibromomethane            | 7.580  | 93   | 122472   | 49.456   | ug/l # | 84       |
| 47) Bromodichloromethane      | 7.824  | 83   | 225986   | 48.524   | ug/l   | 97       |
| 48) Methyl methacrylate       | 7.696  | 41   | 162676   | 50.567   | ug/l # | 83       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 85929    | 1173.302 | ug/l # | 84       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 1115405  | 256.456  | ug/l   | 90       |
| 52) Toluene                   | 8.720  | 92   | 399893   | 49.835   | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 233685   | 49.285   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 247773   | 49.501   | ug/l # | 86       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 174292   | 51.191   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 252855   | 53.081   | ug/l # | 83       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 267242   | 50.394   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 631416   | 269.591  | ug/l   | 90       |
| 59) 2-Hexanone                | 9.427  | 43   | 895954   | 254.591  | ug/l   | 88       |
| 60) Dibromochloromethane      | 9.519  | 129  | 196008   | 51.284   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 195157   | 51.002   | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.275  | 164  | 186338   | 54.075   | ug/l   | 96       |
| 65) Chlorobenzene             | 10.079 | 112  | 460806   | 49.171   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 176760   | 50.174   | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 769345   | 48.533   | ug/l   | 96       |
| 68) m/p-Xylenes               | 10.299 | 106  | 619108   | 98.405   | ug/l   | 95       |
| 69) o-Xylene                  | 10.640 | 106  | 302895   | 49.507   | ug/l   | 96       |
| 70) Styrene                   | 10.652 | 104  | 513170   | 50.821   | ug/l   | 95       |
| 71) Bromoform                 | 10.799 | 173  | 157491   | 50.648   | ug/l # | 100      |
| 73) Isopropylbenzene          | 10.963 | 105  | 790419   | 48.483   | ug/l   | 97       |
| 74) N-amyl acetate            | 10.841 | 43   | 287820   | 50.811   | ug/l # | 90       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 274300   | 48.669   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 263250m  | 50.020   | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 219906   | 49.149   | ug/l   | 81       |
| 78) n-propylbenzene           | 11.305 | 91   | 900423   | 47.462   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 545491   | 48.027   | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 690064   | 49.181   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 78663    | 47.061   | ug/l   | 86       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 647165   | 48.773   | ug/l   | 93       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 667674   | 46.962   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 684831   | 49.211   | ug/l   | 96       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 844359   | 47.596   | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 741635   | 49.074   | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 410315   | 47.966   | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 416658   | 47.387   | ug/l   | 97       |
| 89) n-Butylbenzene            | 12.335 | 91   | 633818   | 47.130   | ug/l   | 96       |
| 90) Hexachloroethane          | 12.536 | 117  | 122900   | 48.011   | ug/l   | 76       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 406497   | 48.658   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 71938    | 50.785   | ug/l   | 65       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 286901   | 48.014   | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 118997   | 46.152   | ug/l   | 98       |
| 95) Naphthalene               | 13.774 | 128  | 922181   | 51.163   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 283609   | 48.154   | ug/l   | 97       |

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ALS Vial : 26 Sample Multiplier: 1

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Quant Title : SW846 8260  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

