

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112224\  
 Data File : VN085008.D  
 Acq On : 22 Nov 2024 12:34  
 Operator : JC\MD  
 Sample : VSTDICC010  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC010

Quant Time: Nov 23 02:00:17 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112224W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 23 01:56:57 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 11/25/2024  
 Supervised By : Mahesh Dadoda 11/25/2024

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.218          | 168  | 161407     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.094          | 114  | 278264     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 234609     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.788         | 152  | 110358     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.571          | 65   | 23734      | 10.323   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 20.640%# |        |          |
| 35) Dibromofluoromethane     | 8.159          | 113  | 18392      | 9.801    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 19.600%# |        |          |
| 50) Toluene-d8               | 10.559         | 98   | 64656      | 9.614    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 19.220%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 24371      | 9.691    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = | 19.380%# |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 17355      | 9.509    | ug/l   | 98       |
| 3) Chloromethane             | 2.359          | 50   | 19463      | 9.194    | ug/l   | 93       |
| 4) Vinyl Chloride            | 2.512          | 62   | 18378      | 9.661    | ug/l   | 99       |
| 5) Bromomethane              | 2.901          | 94   | 10681      | 10.017   | ug/l   | 99       |
| 6) Chloroethane              | 3.077          | 64   | 12602      | 9.828    | ug/l # | 88       |
| 7) Trichlorofluoromethane    | 3.477          | 101  | 30566      | 9.445    | ug/l   | 98       |
| 8) Diethyl Ether             | 3.953          | 74   | 10394      | 9.437    | ug/l   | 89       |
| 9) 1,1,2-Trichlorotrifluo... | 4.353          | 101  | 17791      | 9.693    | ug/l   | 98       |
| 10) Methyl Iodide            | 4.583          | 142  | 22722      | 9.353    | ug/l   | 95       |
| 11) Tert butyl alcohol       | 5.542          | 59   | 15491      | 50.421   | ug/l # | 81       |
| 12) 1,1-Dichloroethene       | 4.324          | 96   | 16330      | 9.532    | ug/l   | 93       |
| 13) Acrolein                 | 4.183          | 56   | 10601      | 51.710   | ug/l   | 99       |
| 14) Allyl chloride           | 5.006          | 41   | 28006      | 9.697    | ug/l   | 97       |
| 15) Acrylonitrile            | 5.718          | 53   | 40469      | 46.525   | ug/l   | 98       |
| 16) Acetone                  | 4.430          | 43   | 32743      | 48.900   | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.700          | 76   | 47181      | 9.331    | ug/l # | 93       |
| 18) Methyl Acetate           | 5.018          | 43   | 23065      | 9.856    | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.795          | 73   | 53672      | 9.589    | ug/l   | 96       |
| 20) Methylene Chloride       | 5.271          | 84   | 19680      | 9.632    | ug/l   | 93       |
| 21) trans-1,2-Dichloroethene | 5.777          | 96   | 16759      | 9.296    | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.665          | 45   | 56475      | 9.716    | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.594          | 43   | 192330     | 47.962   | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.559          | 63   | 33350      | 9.588    | ug/l # | 92       |
| 25) 2-Butanone               | 7.477          | 43   | 51223      | 46.790   | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 7.477          | 77   | 30494      | 9.388    | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.477          | 96   | 20469      | 9.418    | ug/l   | 99       |
| 28) Bromochloromethane       | 7.806          | 49   | 12594      | 9.591    | ug/l   | 95       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 32197      | 47.294   | ug/l   | 99       |
| 30) Chloroform               | 7.959          | 83   | 34651      | 9.365    | ug/l   | 98       |
| 31) Cyclohexane              | 8.253          | 56   | 29526      | 9.641    | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 8.165          | 97   | 32054      | 9.587    | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 23205      | 9.130    | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.559          | 43   | 22487      | 9.732    | ug/l # | 97       |
| 38) Carbon Tetrachloride     | 8.353          | 117  | 26952      | 9.186    | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.594          | 83   | 23924      | 9.058    | ug/l   | 96       |
| 40) Benzene                  | 8.600          | 78   | 75597      | 9.404    | ug/l   | 98       |

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 Sample : VSTDICC010  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC010

Quant Time: Nov 23 02:00:17 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112224W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 23 01:56:57 2024  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/25/2024  
 Supervised By : Mahesh Dadoda 11/25/2024

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.771  | 41   | 12417    | 9.705   | ug/l   | 99       |
| 42) 1,2-Dichloroethane        | 8.659  | 62   | 25169    | 9.152   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.688  | 43   | 43717    | 9.108   | ug/l   | 95       |
| 44) Trichloroethene           | 9.347  | 130  | 17835    | 9.547   | ug/l   | 90       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 18902    | 9.546   | ug/l   | 98       |
| 46) Dibromomethane            | 9.706  | 93   | 12540    | 9.114   | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.888  | 83   | 27136    | 9.306   | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.677  | 41   | 16793    | 9.402   | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 6366     | 205.527 | ug/l # | 90       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43   | 106422   | 48.544  | ug/l   | 100      |
| 52) Toluene                   | 10.630 | 92   | 44072    | 9.261   | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 27040    | 9.249   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.306 | 75   | 28183    | 9.087   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 11.012 | 97   | 17498    | 9.871   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.871 | 69   | 24309    | 9.385   | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 11.159 | 76   | 29257    | 9.378   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.153 | 63   | 61252    | 48.207  | ug/l   | 97       |
| 59) 2-Hexanone                | 11.194 | 43   | 77951    | 47.542  | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.353 | 129  | 19478    | 8.991   | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.465 | 107  | 17673    | 9.633   | ug/l   | 95       |
| 64) Tetrachloroethene         | 11.100 | 164  | 15092    | 9.547   | ug/l   | 94       |
| 65) Chlorobenzene             | 11.888 | 112  | 51106    | 9.605   | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 17966    | 9.590   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.959 | 91   | 79668    | 9.229   | ug/l   | 95       |
| 68) m/p-Xylenes               | 12.071 | 106  | 62195    | 18.925  | ug/l   | 98       |
| 69) o-Xylene                  | 12.394 | 106  | 30067    | 9.618   | ug/l   | 95       |
| 70) Styrene                   | 12.412 | 104  | 50150    | 9.647   | ug/l   | 99       |
| 71) Bromoform                 | 12.576 | 173  | 12832    | 9.228   | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.694 | 105  | 75080    | 9.644   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.488 | 43   | 29811    | 9.292   | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 25341    | 9.532   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.988 | 75   | 16940m   | 8.206   | ug/l   |          |
| 77) Bromobenzene              | 12.976 | 156  | 19904    | 9.500   | ug/l   | 99       |
| 78) n-propylbenzene           | 13.035 | 91   | 85642    | 9.537   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 58233    | 9.715   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 13.171 | 105  | 63212    | 9.676   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 8603     | 9.738   | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 13.218 | 91   | 60156    | 9.640   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.435 | 119  | 53773    | 9.566   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 64606    | 9.607   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 72405    | 9.535   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 60467    | 9.647   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 38501    | 9.317   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 39471    | 9.360   | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.059 | 91   | 52430    | 8.994   | ug/l   | 100      |
| 90) Hexachloroethane          | 14.335 | 117  | 12541    | 9.179   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 37183    | 9.390   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 4917     | 9.565   | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 20285    | 9.429   | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 9015     | 9.080   | ug/l   | 98       |
| 95) Naphthalene               | 15.641 | 128  | 54191    | 8.844   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 18745    | 9.132   | ug/l   | 98       |

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ALS Vial : 6 Sample Multiplier: 1

Instrument :  
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Manual Integrations  
APPROVED

Reviewed By :John Carlone 11/25/2024  
Supervised By :Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 02:00:17 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112224W.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 23 01:56:57 2024  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |

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

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