

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112224\  
 Data File : VN085012.D  
 Acq On : 22 Nov 2024 16:07  
 Operator : JC\MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN112224

Quant Time: Nov 23 02:57:06 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112224W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 23 02:54:10 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  | 180278              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 293712              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 254182              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.788         | 152  | 128770              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.571          | 65   | 129855              | 50.568  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 101.140% |         |        |          |
| 35) Dibromofluoromethane     | 8.159          | 113  | 102148              | 51.572  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 103.140% |         |        |          |
| 50) Toluene-d8               | 10.559         | 98   | 379679              | 53.488  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 106.980% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 141423              | 53.276  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = 106.560% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.118          | 85   | 95019               | 46.612  | ug/l   | 99       |
| 3) Chloromethane             | 2.359          | 50   | 99689               | 42.164  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.512          | 62   | 97145               | 45.721  | ug/l   | 95       |
| 5) Bromomethane              | 2.900          | 94   | 53525               | 44.945  | ug/l   | 91       |
| 6) Chloroethane              | 3.077          | 64   | 59473               | 41.527  | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 3.477          | 101  | 165959              | 45.916  | ug/l   | 94       |
| 8) Diethyl Ether             | 3.953          | 74   | 58978               | 47.942  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 4.359          | 101  | 93701               | 45.709  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.577          | 142  | 127705              | 47.063  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.536          | 59   | 74416               | 216.857 | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 4.330          | 96   | 89314               | 46.677  | ug/l   | 97       |
| 13) Acrolein                 | 4.171          | 56   | 58781               | 256.710 | ug/l   | 99       |
| 14) Allyl chloride           | 5.012          | 41   | 152182              | 47.178  | ug/l   | 99       |
| 15) Acrylonitrile            | 5.712          | 53   | 225423              | 232.029 | ug/l   | 99       |
| 16) Acetone                  | 4.424          | 43   | 188963              | 252.665 | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.700          | 76   | 244899              | 43.362  | ug/l # | 94       |
| 18) Methyl Acetate           | 5.018          | 43   | 111346              | 46.500  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.789          | 73   | 303857              | 48.602  | ug/l   | 98       |
| 20) Methylene Chloride       | 5.271          | 84   | 98339               | 43.090  | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.777          | 96   | 92234               | 45.805  | ug/l # | 89       |
| 22) Diisopropyl ether        | 6.665          | 45   | 306957              | 47.281  | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.594          | 43   | 1108786             | 247.560 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.559          | 63   | 177343              | 45.647  | ug/l   | 99       |
| 25) 2-Butanone               | 7.477          | 43   | 294434              | 240.802 | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 7.488          | 77   | 168144              | 46.349  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.477          | 96   | 110716              | 45.609  | ug/l   | 97       |
| 28) Bromochloromethane       | 7.812          | 49   | 67335               | 45.913  | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.835          | 42   | 183433              | 241.241 | ug/l   | 100      |
| 30) Chloroform               | 7.959          | 83   | 188550              | 45.623  | ug/l   | 95       |
| 31) Cyclohexane              | 8.253          | 56   | 157639              | 46.084  | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 8.159          | 97   | 170723              | 45.714  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.365          | 75   | 129026              | 48.093  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.553          | 43   | 113781              | 46.651  | ug/l   | 100      |
| 38) Carbon Tetrachloride     | 8.359          | 117  | 151265              | 48.846  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.594          | 83   | 145286              | 52.114  | ug/l   | 98       |
| 40) Benzene                  | 8.600          | 78   | 404536              | 47.675  | ug/l   | 99       |

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 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
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Quant Time: Nov 23 02:57:06 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112224W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 23 02:54:10 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   | 66590    | 49.311  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 8.665  | 62   | 136508   | 47.025  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.688  | 43   | 210623   | 41.574  | ug/l   | 99       |
| 44) Trichloroethene           | 9.347  | 130  | 93086    | 47.205  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 98380    | 47.073  | ug/l   | 95       |
| 46) Dibromomethane            | 9.706  | 93   | 69575    | 47.909  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.882  | 83   | 146603   | 47.631  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.676  | 41   | 95959    | 50.900  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 31078    | 950.585 | ug/l # | 87       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43   | 582480   | 251.720 | ug/l   | 100      |
| 52) Toluene                   | 10.629 | 92   | 249568   | 49.682  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.829 | 75   | 150836   | 48.881  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.306 | 75   | 164009   | 50.100  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 11.012 | 97   | 92219    | 49.287  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.871 | 69   | 149537   | 54.694  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 11.159 | 76   | 158000   | 47.980  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 315602   | 235.323 | ug/l   | 99       |
| 59) 2-Hexanone                | 11.194 | 43   | 444749   | 256.983 | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.359 | 129  | 108961   | 47.650  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.465 | 107  | 94657    | 48.883  | ug/l   | 96       |
| 64) Tetrachloroethene         | 11.100 | 164  | 82753    | 48.316  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.888 | 112  | 264798   | 45.936  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 95374    | 46.991  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.959 | 91   | 477400   | 51.046  | ug/l   | 96       |
| 68) m/p-Xylenes               | 12.065 | 106  | 363006   | 101.951 | ug/l   | 99       |
| 69) o-Xylene                  | 12.394 | 106  | 173028   | 51.086  | ug/l   | 98       |
| 70) Styrene                   | 12.406 | 104  | 296759   | 52.687  | ug/l   | 99       |
| 71) Bromoform                 | 12.576 | 173  | 73244    | 48.617  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.694 | 105  | 445261   | 49.014  | ug/l   | 100      |
| 74) N-ethyl acetate           | 12.494 | 43   | 184990   | 49.418  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 132755   | 42.796  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.988 | 75   | 105927m  | 45.225  | ug/l   |          |
| 77) Bromobenzene              | 12.976 | 156  | 108566   | 44.410  | ug/l   | 99       |
| 78) n-propylbenzene           | 13.035 | 91   | 525567   | 50.160  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 324611   | 46.409  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 13.170 | 105  | 382819   | 50.220  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 49617    | 46.764  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 13.217 | 91   | 331271   | 45.496  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.435 | 119  | 320979   | 48.939  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 392031   | 49.962  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.612 | 105  | 444471   | 50.166  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 378270   | 51.719  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146  | 204731   | 42.459  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 202930   | 41.240  | ug/l   | 97       |
| 89) n-Butylbenzene            | 14.053 | 91   | 325752   | 47.892  | ug/l   | 100      |
| 90) Hexachloroethane          | 14.335 | 117  | 72271    | 45.332  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 200864   | 43.472  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 26503    | 44.183  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 107707   | 42.908  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 49330    | 42.581  | ug/l   | 99       |
| 95) Naphthalene               | 15.641 | 128  | 329352   | 46.067  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 102829   | 42.932  | ug/l   | 97       |

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Sample : VSTDICV050  
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ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
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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 02:57:06 2024  
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Quant Title : SW846 8260  
QLast Update : Sat Nov 23 02:54:10 2024  
Response via : Initial Calibration

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

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

