

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN030624\  
 Data File : VN081316.D  
 Acq On : 06 Mar 2024 10:51  
 Operator : JC\MD  
 Sample : VN0306WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0306WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/07/2024  
 Supervised By : Mahesh Dadoda 03/07/2024

Quant Time: Mar 07 00:22:08 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030524W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 06 03:12:57 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 312415     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 573254     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 515909     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 227128     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.577          | 65   | 222386     | 49.231   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 98.460%  |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 174910     | 49.802   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 99.600%  |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 657638     | 50.090   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 100.180% |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 222429     | 47.933   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 64 - 133 |      | Recovery = | 95.860%  |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 90093      | 21.754   | ug/l   | 99       |
| 3) Chloromethane             | 2.360          | 50   | 83487      | 18.663   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.518          | 62   | 90391      | 19.369   | ug/l   | 94       |
| 5) Bromomethane              | 2.959          | 94   | 58223      | 18.680   | ug/l   | 83       |
| 6) Chloroethane              | 3.124          | 64   | 57709      | 18.004   | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.501          | 101  | 137502     | 19.917   | ug/l   | 97       |
| 8) Diethyl Ether             | 3.959          | 74   | 47543      | 19.547   | ug/l   | 84       |
| 9) 1,1,2-Trichlorotrifluo... | 4.365          | 101  | 74648      | 18.988   | ug/l   | 92       |
| 10) Methyl Iodide            | 4.589          | 142  | 67223      | 18.685   | ug/l   | 95       |
| 11) Tert butyl alcohol       | 5.524          | 59   | 75160      | 95.156   | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.336          | 96   | 68514      | 18.818   | ug/l   | 87       |
| 13) Acrolein                 | 4.177          | 56   | 93955      | 100.455  | ug/l   | 97       |
| 14) Allyl chloride           | 5.024          | 41   | 98342      | 18.201   | ug/l # | 85       |
| 15) Acrylonitrile            | 5.724          | 53   | 201017     | 97.417   | ug/l   | 97       |
| 16) Acetone                  | 4.424          | 43   | 158082     | 98.773   | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.706          | 76   | 187453     | 18.039   | ug/l # | 94       |
| 18) Methyl Acetate           | 5.024          | 43   | 94836      | 20.697   | ug/l   | 92       |
| 19) Methyl tert-butyl Ether  | 5.800          | 73   | 232506     | 18.829   | ug/l   | 99       |
| 20) Methylene Chloride       | 5.283          | 84   | 78072      | 19.249   | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 73810      | 17.981   | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.677          | 45   | 233413     | 19.449   | ug/l # | 96       |
| 23) Vinyl Acetate            | 6.606          | 43   | 934592     | 95.861   | ug/l # | 94       |
| 24) 1,1-Dichloroethane       | 6.571          | 63   | 139810     | 19.031   | ug/l   | 96       |
| 25) 2-Butanone               | 7.483          | 43   | 263024     | 98.134   | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 7.489          | 77   | 120424     | 18.547   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.489          | 96   | 87660      | 18.836   | ug/l   | 87       |
| 28) Bromochloromethane       | 7.818          | 49   | 56033      | 17.826   | ug/l # | 72       |
| 29) Tetrahydrofuran          | 7.836          | 42   | 174611     | 95.537   | ug/l # | 89       |
| 30) Chloroform               | 7.965          | 83   | 149936     | 19.668   | ug/l   | 99       |
| 31) Cyclohexane              | 8.259          | 56   | 131458     | 19.222   | ug/l # | 78       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 133036     | 19.742   | ug/l   | 89       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 108312     | 19.116   | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.559          | 43   | 105593     | 19.064   | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.359          | 117  | 111615     | 19.573   | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.600          | 83   | 125699     | 19.276   | ug/l   | 93       |
| 40) Benzene                  | 8.606          | 78   | 329536     | 19.484   | ug/l   | 98       |

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 Sample : VN0306WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0306WBS01

Manual Integrations  
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Reviewed By : John Carlone 03/07/2024  
 Supervised By : Mahesh Dadoda 03/07/2024

Quant Time: Mar 07 00:22:08 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030524W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 06 03:12:57 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.783  | 41   | 57509    | 18.386  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 115731   | 19.408  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 177535   | 18.313  | ug/l   | 96       |
| 44) Trichloroethene           | 9.353  | 130  | 80675    | 18.913  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 80822    | 19.023  | ug/l   | 95       |
| 46) Dibromomethane            | 9.712  | 93   | 58458    | 19.520  | ug/l   | 92       |
| 47) Bromodichloromethane      | 9.888  | 83   | 115029   | 19.786  | ug/l # | 98       |
| 48) Methyl methacrylate       | 9.683  | 41   | 80684    | 18.828  | ug/l   | 88       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 37893    | 401.192 | ug/l # | 82       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 569144   | 101.106 | ug/l   | 96       |
| 52) Toluene                   | 10.635 | 92   | 202803   | 19.850  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 120600   | 19.172  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 129324   | 19.045  | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 80779    | 19.938  | ug/l   | 92       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 114593   | 19.698  | ug/l   | 91       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 138500   | 19.587  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 308224   | 98.494  | ug/l # | 90       |
| 59) 2-Hexanone                | 11.200 | 43   | 424411   | 100.851 | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.365 | 129  | 81791    | 19.602  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 82676    | 19.667  | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.106 | 164  | 78394    | 19.407  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.894 | 112  | 213013   | 19.594  | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 76754    | 19.294  | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.965 | 91   | 374382   | 19.117  | ug/l   | 100      |
| 68) m/p-Xylenes               | 12.071 | 106  | 285649   | 38.758  | ug/l   | 98       |
| 69) o-Xylene                  | 12.400 | 106  | 135507   | 18.971  | ug/l   | 100      |
| 70) Styrene                   | 12.412 | 104  | 224697   | 19.851  | ug/l   | 97       |
| 71) Bromoform                 | 12.582 | 173  | 52711    | 19.085  | ug/l # | 94       |
| 73) Isopropylbenzene          | 12.700 | 105  | 364233   | 19.859  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.494 | 43   | 144193   | 18.737  | ug/l # | 92       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 108304   | 19.135  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 104820m  | 19.539  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 79265    | 18.228  | ug/l   | 81       |
| 78) n-propylbenzene           | 13.041 | 91   | 447093   | 20.610  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 257526   | 19.422  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 310472   | 20.479  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 33999m   | 17.687  | ug/l   |          |
| 82) 4-Chlorotoluene           | 13.224 | 91   | 253026   | 19.319  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 264396   | 20.342  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 308516   | 20.085  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 374748   | 19.930  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 311800   | 20.677  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 156322   | 19.038  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene       | 13.818 | 146  | 152148   | 18.539  | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.059 | 91   | 271572   | 19.638  | ug/l   | 96       |
| 90) Hexachloroethane          | 14.335 | 117  | 49792    | 18.860  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 149645   | 18.995  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.718 | 75   | 24083    | 19.883  | ug/l   | 86       |
| 93) 1,2,4-Trichlorobenzene    | 15.400 | 180  | 80129    | 19.029  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 31041    | 17.840  | ug/l   | 97       |
| 95) Naphthalene               | 15.647 | 128  | 286121   | 19.095  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 83172    | 19.476  | ug/l   | 97       |

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Sample : VN0306WBS01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0306WBS01

Manual Integrations  
APPROVED

Reviewed By :John Carlone 03/07/2024  
Supervised By :Mahesh Dadoda 03/07/2024

Quant Time: Mar 07 00:22:08 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030524W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 06 03:12:57 2024  
Response via : Initial Calibration

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

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

