

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091824\  
 Data File : VN084010.D  
 Acq On : 19 Sep 2024 04:34  
 Operator : JC\MD  
 Sample : VN0918WBS02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0918WBS02

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 09/19/2024  
 Supervised By :Mahesh Dadoda 09/19/2024

Quant Time: Sep 19 05:49:12 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 11 15:18:56 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 143128              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 253238              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 220311              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.788         | 152  | 101852              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.577          | 65   | 114818              | 53.202  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 106.400% |         |        |          |
| 35) Dibromofluoromethane     | 8.159          | 113  | 82471               | 50.870  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 101.740% |         |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 291206              | 51.959  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 103.920% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 110036              | 47.587  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = 95.180%  |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 27976               | 16.831  | ug/l   | 96       |
| 3) Chloromethane             | 2.365          | 50   | 30127               | 16.512  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.518          | 62   | 30818               | 16.915  | ug/l   | 98       |
| 5) Bromomethane              | 2.960          | 94   | 19781               | 18.910  | ug/l   | 93       |
| 6) Chloroethane              | 3.124          | 64   | 19848               | 15.530  | ug/l   | 93       |
| 7) Trichlorofluoromethane    | 3.501          | 101  | 54089               | 17.490  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.965          | 74   | 18526               | 17.871  | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 28984               | 17.682  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.595          | 142  | 35125               | 16.848  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.518          | 59   | 31642               | 109.488 | ug/l # | 88       |
| 12) 1,1-Dichloroethene       | 4.342          | 96   | 27321               | 17.648  | ug/l   | 98       |
| 13) Acrolein                 | 4.189          | 56   | 8122                | 28.484  | ug/l   | 97       |
| 14) Allyl chloride           | 5.024          | 41   | 45417               | 16.465  | ug/l   | 93       |
| 15) Acrylonitrile            | 5.724          | 53   | 76392               | 97.199  | ug/l   | 99       |
| 16) Acetone                  | 4.424          | 43   | 69206               | 79.992  | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.718          | 76   | 65885               | 15.214  | ug/l   | 99       |
| 18) Methyl Acetate           | 5.030          | 43   | 38830               | 20.444  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.795          | 73   | 104047              | 18.573  | ug/l   | 95       |
| 20) Methylene Chloride       | 5.277          | 84   | 31844               | 17.987  | ug/l # | 84       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 27814               | 16.765  | ug/l   | 89       |
| 22) Diisopropyl ether        | 6.671          | 45   | 108342              | 19.080  | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.600          | 43   | 392937              | 94.493  | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 6.565          | 63   | 60803               | 18.586  | ug/l   | 98       |
| 25) 2-Butanone               | 7.483          | 43   | 107567              | 94.597  | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.495          | 77   | 38358               | 12.732  | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 7.495          | 96   | 35857               | 18.206  | ug/l   | 96       |
| 28) Bromochloromethane       | 7.812          | 49   | 29003               | 21.052  | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.842          | 42   | 67963               | 101.080 | ug/l   | 96       |
| 30) Chloroform               | 7.965          | 83   | 64541               | 18.583  | ug/l   | 95       |
| 31) Cyclohexane              | 8.259          | 56   | 48432               | 15.527  | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 8.165          | 97   | 57709               | 18.071  | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 41251               | 16.905  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.559          | 43   | 45419               | 20.506  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 49267               | 17.797  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.600          | 83   | 42998               | 15.481  | ug/l   | 93       |
| 40) Benzene                  | 8.606          | 78   | 126730              | 17.255  | ug/l   | 98       |

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 Sample : VN0918WBS02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0918WBS02

Quant Time: Sep 19 05:49:12 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 11 15:18:56 2024  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 09/19/2024  
 Supervised By : Mahesh Dadoda 09/19/2024

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.771  | 41   | 25794    | 19.690  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 8.665  | 62   | 50871    | 18.536  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.689  | 43   | 89990    | 22.421  | ug/l   | 96       |
| 44) Trichloroethene           | 9.353  | 130  | 29539    | 17.368  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 32217    | 18.149  | ug/l   | 94       |
| 46) Dibromomethane            | 9.706  | 93   | 22984    | 18.485  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.889  | 83   | 50430    | 18.741  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.683  | 41   | 37931    | 19.919  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 12637    | 403.397 | ug/l # | 100      |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43   | 225384   | 103.156 | ug/l   | 97       |
| 52) Toluene                   | 10.630 | 92   | 81164    | 18.067  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 48145    | 17.652  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 48953    | 17.086  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 11.012 | 97   | 30807    | 18.369  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.871 | 69   | 50814    | 19.693  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 54537    | 18.920  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 106817   | 114.886 | ug/l   | 97       |
| 59) 2-Hexanone                | 11.194 | 43   | 162254   | 100.392 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.359 | 129  | 36454    | 19.422  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 31314    | 18.721  | ug/l   | 96       |
| 64) Tetrachloroethene         | 11.100 | 164  | 26181    | 17.870  | ug/l   | 93       |
| 65) Chlorobenzene             | 11.888 | 112  | 86997    | 17.767  | ug/l   | 94       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 30348    | 17.878  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.965 | 91   | 155133   | 17.835  | ug/l   | 98       |
| 68) m/p-Xylenes               | 12.071 | 106  | 113898   | 35.269  | ug/l   | 95       |
| 69) o-Xylene                  | 12.400 | 106  | 56539    | 18.085  | ug/l   | 99       |
| 70) Styrene                   | 12.412 | 104  | 93088    | 18.143  | ug/l   | 98       |
| 71) Bromoform                 | 12.577 | 173  | 22979    | 20.089  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.694 | 105  | 146318   | 18.568  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.494 | 43   | 67159    | 19.976  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 43037    | 18.588  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 37351m   | 18.174  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 34022    | 17.937  | ug/l   | 99       |
| 78) n-propylbenzene           | 13.035 | 91   | 170428   | 18.589  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.124 | 91   | 106561   | 18.225  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 13.171 | 105  | 120066   | 18.073  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 13146    | 16.753  | ug/l   | 90       |
| 82) 4-Chlorotoluene           | 13.218 | 91   | 108355   | 18.466  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.435 | 119  | 106726   | 18.362  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 122917   | 18.419  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 143331   | 18.594  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 117591   | 18.198  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 61558    | 17.196  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 62474    | 17.236  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.053 | 91   | 98006    | 16.893  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.329 | 117  | 22661    | 17.446  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 60692    | 17.568  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.718 | 75   | 9174     | 19.877  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 29215    | 15.759  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.494 | 225  | 13229    | 16.803  | ug/l   | 98       |
| 95) Naphthalene               | 15.635 | 128  | 98091    | 17.391  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 29190    | 16.475  | ug/l   | 99       |

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Acq On : 19 Sep 2024 04:34  
Operator : JC\MD  
Sample : VN0918WBS02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0918WBS02

Manual Integrations  
APPROVED

Reviewed By :John Carlone 09/19/2024  
Supervised By :Mahesh Dadoda 09/19/2024

Quant Time: Sep 19 05:49:12 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 11 15:18:56 2024  
Response via : Initial Calibration

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

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

