

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN021323\  
 Data File : VN076633.D  
 Acq On : 13 Feb 2023 17:31  
 Operator : JC\MD  
 Sample : VN0213WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0213WBSD01

Quant Time: Feb 14 05:24:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021323W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 14 01:44:47 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/14/2023  
 Supervised By : Mahesh Dadoda 02/14/2023

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 335312              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.107          | 114  | 602051              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.866         | 117  | 544156              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.795         | 152  | 263788              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583          | 65   | 245689              | 53.063  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 106.120% |         |        |          |
| 35) Dibromofluoromethane     | 8.172          | 113  | 193632              | 49.111  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 98.220%  |         |        |          |
| 50) Toluene-d8               | 10.572         | 98   | 749146              | 50.878  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 101.760% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.854         | 95   | 255063              | 52.302  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 104.600% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.137          | 85   | 75394               | 21.175  | ug/l   | 92       |
| 3) Chloromethane             | 2.372          | 50   | 86909               | 18.709  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.525          | 62   | 87216               | 19.077  | ug/l   | 96       |
| 5) Bromomethane              | 2.954          | 94   | 60339               | 21.782  | ug/l   | 100      |
| 6) Chloroethane              | 3.125          | 64   | 59769               | 20.687  | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 3.507          | 101  | 116346              | 18.704  | ug/l   | 92       |
| 8) Diethyl Ether             | 3.978          | 74   | 47848               | 19.962  | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 4.384          | 101  | 71691               | 19.614  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.601          | 142  | 84804               | 18.788  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.537          | 59   | 62098               | 101.606 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.354          | 96   | 66503               | 19.215  | ug/l   | 94       |
| 13) Acrolein                 | 4.195          | 56   | 93062               | 101.424 | ug/l   | 99       |
| 14) Allyl chloride           | 5.037          | 41   | 112950              | 18.835  | ug/l   | 98       |
| 15) Acrylonitrile            | 5.731          | 53   | 218174              | 100.588 | ug/l   | 99       |
| 16) Acetone                  | 4.437          | 43   | 180795              | 87.415  | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.725          | 76   | 174315              | 19.076  | ug/l   | 98       |
| 18) Methyl Acetate           | 5.042          | 43   | 138908              | 20.576  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.807          | 73   | 240140              | 20.580  | ug/l   | 95       |
| 20) Methylene Chloride       | 5.284          | 84   | 84058               | 19.392  | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 72473               | 18.602  | ug/l # | 79       |
| 22) Diisopropyl ether        | 6.684          | 45   | 291260              | 20.707  | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.613          | 43   | 929500              | 111.690 | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 6.578          | 63   | 147678              | 19.157  | ug/l   | 96       |
| 25) 2-Butanone               | 7.495          | 43   | 298462              | 97.830  | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 7.501          | 77   | 104877              | 18.862  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.495          | 96   | 85640               | 18.533  | ug/l   | 96       |
| 28) Bromochloromethane       | 7.819          | 49   | 65972               | 17.981  | ug/l   | 94       |
| 29) Tetrahydrofuran          | 7.848          | 42   | 197775              | 99.222  | ug/l   | 98       |
| 30) Chloroform               | 7.972          | 83   | 148931              | 19.337  | ug/l   | 97       |
| 31) Cyclohexane              | 8.266          | 56   | 143896              | 19.812  | ug/l   | 92       |
| 32) 1,1,1-Trichloroethane    | 8.172          | 97   | 127673              | 19.715  | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 8.378          | 75   | 108755              | 19.091  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.566          | 43   | 123510              | 20.607  | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 8.366          | 117  | 108330              | 18.851  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.607          | 83   | 129260              | 19.962  | ug/l   | 99       |
| 40) Benzene                  | 8.613          | 78   | 340493              | 19.464  | ug/l   | 99       |

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 Sample : VN0213WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0213WBSD01

Manual Integrations  
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 Supervised By : Mahesh Dadoda 02/14/2023

Quant Time: Feb 14 05:24:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021323W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 14 01:44:47 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.783  | 41   | 68669    | 19.777  | ug/l   | 95       |
| 42) 1,2-Dichloroethane        | 8.678  | 62   | 119889   | 19.650  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.695  | 43   | 204650   | 20.984  | ug/l   | 99       |
| 44) Trichloroethene           | 9.360  | 130  | 78116    | 18.896  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.625  | 63   | 90636    | 19.572  | ug/l   | 91       |
| 46) Dibromomethane            | 9.713  | 93   | 58115    | 19.630  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.895  | 83   | 116029   | 19.548  | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.689  | 41   | 96083    | 20.761  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.695  | 88   | 32005    | 399.784 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.448 | 43   | 636885   | 102.636 | ug/l   | 98       |
| 52) Toluene                   | 10.636 | 92   | 215115   | 20.367  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.842 | 75   | 118207   | 20.633  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.313 | 75   | 129052   | 19.529  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 11.019 | 97   | 86580    | 20.160  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 121303   | 20.066  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 11.166 | 76   | 150285   | 20.368  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.160 | 63   | 293537   | 106.026 | ug/l   | 98       |
| 59) 2-Hexanone                | 11.201 | 43   | 453987   | 101.468 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.360 | 129  | 85875    | 18.972  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 82546    | 19.202  | ug/l   | 97       |
| 64) Tetrachloroethene         | 11.107 | 164  | 66075    | 19.268  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.895 | 112  | 220025   | 19.079  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.966 | 131  | 82370    | 19.664  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.966 | 91   | 396876   | 20.200  | ug/l   | 98       |
| 68) m/p-Xylenes               | 12.071 | 106  | 312715   | 41.293  | ug/l   | 98       |
| 69) o-Xylene                  | 12.401 | 106  | 151846   | 20.559  | ug/l   | 97       |
| 70) Styrene                   | 12.413 | 104  | 247079   | 20.687  | ug/l   | 99       |
| 71) Bromoform                 | 12.583 | 173  | 60358    | 19.644  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.701 | 105  | 391090   | 20.227  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.495 | 43   | 179471   | 20.593  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.942 | 83   | 130499   | 18.646  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.995 | 75   | 99008m   | 18.565  | ug/l   |          |
| 77) Bromobenzene              | 12.983 | 156  | 93149    | 19.310  | ug/l   | 98       |
| 78) n-propylbenzene           | 13.042 | 91   | 460980   | 20.304  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.130 | 91   | 273324   | 19.662  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 13.177 | 105  | 337596   | 21.128  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.736 | 75   | 40578    | 22.161  | ug/l   | 84       |
| 82) 4-Chlorotoluene           | 13.130 | 91   | 273324   | 19.662  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.442 | 119  | 290869   | 20.122  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.483 | 105  | 336092   | 21.105  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 417870   | 20.705  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.730 | 119  | 346070   | 21.474  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.736 | 146  | 172283   | 18.893  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.813 | 146  | 174927   | 19.264  | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.060 | 91   | 286398   | 20.433  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.336 | 117  | 61308    | 18.169  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 14.107 | 146  | 175543   | 18.778  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.724 | 75   | 24737    | 18.244  | ug/l   | 92       |
| 93) 1,2,4-Trichlorobenzene    | 15.395 | 180  | 93073    | 19.959  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.507 | 225  | 42310    | 18.512  | ug/l   | 99       |
| 95) Naphthalene               | 15.648 | 128  | 301095   | 21.278  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.842 | 180  | 94130    | 20.835  | ug/l   | 100      |

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 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0213WBSD01

**Manual Integrations**  
**APPROVED**

Reviewed By : John Carlone 02/14/2023  
 Supervised By : Mahesh Dadoda 02/14/2023

Quant Time: Feb 14 05:24:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021323W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 14 01:44:47 2023  
 Response via : Initial Calibration

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

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

