

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011323\  
 Data File : VN076240.D  
 Acq On : 13 Jan 2023 11:50  
 Operator : JC\MD  
 Sample : VN0113WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0113WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 01/16/2023  
 Supervised By : Mahesh Dadoda 01/16/2023

Quant Time: Jan 16 01:04:51 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121422W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 14 13:03:41 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 306813              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 495146              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 438274              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 207052              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583          | 65   | 169524              | 50.789  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 101.580% |         |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 154466              | 50.374  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 100.740% |         |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 540895              | 47.179  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 94.360%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 183703              | 48.378  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 96.760%  |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 53497               | 24.557  | ug/l   | 96       |
| 3) Chloromethane             | 2.377          | 50   | 54482               | 20.112  | ug/l   | 92       |
| 4) Vinyl Chloride            | 2.530          | 62   | 66196               | 20.486  | ug/l   | 98       |
| 5) Bromomethane              | 2.959          | 94   | 57192               | 20.826  | ug/l   | 96       |
| 6) Chloroethane              | 3.130          | 64   | 51666               | 21.591  | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 3.512          | 101  | 94810               | 19.336  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.977          | 74   | 37006               | 20.664  | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 4.389          | 101  | 57186               | 20.425  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.606          | 142  | 83071               | 18.282  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.536          | 59   | 50818               | 107.597 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.359          | 96   | 50716               | 18.651  | ug/l   | 92       |
| 13) Acrolein                 | 4.201          | 56   | 57431               | 99.186  | ug/l   | 97       |
| 14) Allyl chloride           | 5.042          | 41   | 66628               | 20.960  | ug/l   | 97       |
| 15) Acrylonitrile            | 5.736          | 53   | 135544              | 105.164 | ug/l   | 99       |
| 16) Acetone                  | 4.442          | 43   | 112139              | 97.460  | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.724          | 76   | 107763              | 16.368  | ug/l   | 98       |
| 18) Methyl Acetate           | 5.042          | 43   | 78562               | 23.099  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.812          | 73   | 195006              | 21.777  | ug/l   | 99       |
| 20) Methylene Chloride       | 5.283          | 84   | 60343               | 19.210  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.806          | 96   | 56168               | 18.861  | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.683          | 45   | 158884              | 20.575  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.618          | 43   | 518171              | 99.695  | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.583          | 63   | 100979              | 19.608  | ug/l   | 98       |
| 25) 2-Butanone               | 7.494          | 43   | 177827              | 110.378 | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 7.500          | 77   | 83145               | 19.064  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.500          | 96   | 69656               | 19.557  | ug/l   | 97       |
| 28) Bromochloromethane       | 7.824          | 49   | 40644               | 18.006  | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.847          | 42   | 110216              | 109.166 | ug/l   | 100      |
| 30) Chloroform               | 7.971          | 83   | 112711              | 19.438  | ug/l   | 99       |
| 31) Cyclohexane              | 8.265          | 56   | 90652               | 18.963  | ug/l # | 94       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 100632              | 19.576  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 77618               | 19.055  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.571          | 43   | 71855               | 21.961  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.371          | 117  | 85077               | 18.661  | ug/l   | 91       |
| 39) Methylcyclohexane        | 9.606          | 83   | 94807               | 19.292  | ug/l   | 97       |
| 40) Benzene                  | 8.612          | 78   | 239274              | 19.039  | ug/l   | 98       |

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 Sample : VN0113WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0113WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 01/16/2023  
 Supervised By : Mahesh Dadoda 01/16/2023

Quant Time: Jan 16 01:04:51 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121422W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 14 13:03:41 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.789  | 41   | 36285    | 21.335  | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 84823    | 20.301  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.700  | 43   | 118758   | 22.003  | ug/l   | 98       |
| 44) Trichloroethene           | 9.359  | 130  | 64336    | 18.171  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 59650    | 19.504  | ug/l   | 98       |
| 46) Dibromomethane            | 9.712  | 93   | 45543    | 20.078  | ug/l   | 100      |
| 47) Bromodichloromethane      | 9.888  | 83   | 87343    | 19.635  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.683  | 41   | 53234    | 21.899  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 26985    | 451.544 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 368963   | 113.039 | ug/l   | 97       |
| 52) Toluene                   | 10.635 | 92   | 158528   | 19.368  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 82768    | 19.008  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 94525    | 19.771  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 66367    | 20.658  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 89344    | 20.937  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 105525   | 20.025  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 148581   | 109.361 | ug/l   | 99       |
| 59) 2-Hexanone                | 11.200 | 43   | 262712   | 110.367 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.365 | 129  | 70676    | 19.782  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 65827    | 20.247  | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.106 | 164  | 66936    | 21.704  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.894 | 112  | 170034   | 18.902  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 65420    | 19.634  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.965 | 91   | 295529   | 19.466  | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.076 | 106  | 238483   | 39.687  | ug/l   | 98       |
| 69) o-Xylene                  | 12.400 | 106  | 116544   | 19.598  | ug/l   | 97       |
| 70) Styrene                   | 12.418 | 104  | 188649   | 19.952  | ug/l   | 99       |
| 71) Bromoform                 | 12.582 | 173  | 47397    | 19.549  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.700 | 105  | 297605   | 19.890  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.500 | 43   | 93727    | 21.353  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 91999    | 19.890  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 85058m   | 20.380  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 72618    | 19.177  | ug/l   | 99       |
| 78) n-propylbenzene           | 13.041 | 91   | 338256   | 20.497  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 201688   | 19.578  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 253815   | 20.268  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 23094    | 19.917  | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 13.129 | 91   | 201688   | 19.578  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 231233   | 20.943  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 257987   | 20.767  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 312355   | 20.497  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 265397   | 20.930  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 135379   | 19.355  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.818 | 146  | 134355   | 18.803  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.059 | 91   | 205110   | 19.966  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.335 | 117  | 43408    | 19.137  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 14.112 | 146  | 135154   | 19.617  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 16762    | 20.423  | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 63772    | 18.696  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 35269    | 18.952  | ug/l   | 97       |
| 95) Naphthalene               | 15.647 | 128  | 194004   | 18.644  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 61654    | 19.339  | ug/l   | 97       |

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 Sample : VN0113WBSD01  
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 ALS Vial : 6 Sample Multiplier: 1

**Instrument :**  
 MSVOA\_N  
**ClientSampleId :**  
 VN0113WBSD01

**Manual Integrations**  
**APPROVED**

Reviewed By : John Carlone 01/16/2023  
 Supervised By : Mahesh Dadoda 01/16/2023

Quant Time: Jan 16 01:04:51 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121422W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 14 13:03:41 2022  
 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

