

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011823\  
 Data File : VN076292.D  
 Acq On : 18 Jan 2023 12:35  
 Operator : JC\MD  
 Sample : VN0118WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0118WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 01/19/2023  
 Supervised By : Mahesh Dadoda 01/19/2023

Quant Time: Jan 19 00:47:29 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011623W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 17 03:59:22 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 323800              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 523138              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 470354              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 217272              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583          | 65   | 187241              | 51.645  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 103.300% |         |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 165770              | 50.656  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 101.320% |         |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 627233              | 51.900  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 103.800% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 207721              | 52.649  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 105.300% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 68453               | 20.630  | ug/l   | 96       |
| 3) Chloromethane             | 2.377          | 50   | 65989               | 19.208  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.530          | 62   | 83608               | 19.847  | ug/l   | 98       |
| 5) Bromomethane              | 2.965          | 94   | 89899               | 26.059  | ug/l   | 100      |
| 6) Chloroethane              | 3.130          | 64   | 81225               | 25.714  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.512          | 101  | 135642              | 23.405  | ug/l   | 95       |
| 8) Diethyl Ether             | 3.971          | 74   | 48665               | 25.035  | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 75627               | 23.051  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.600          | 142  | 113188              | 22.586  | ug/l   | 96       |
| 11) Tert butyl alcohol       | 5.530          | 59   | 56517               | 116.545 | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 4.353          | 96   | 69803               | 22.507  | ug/l   | 96       |
| 13) Acrolein                 | 4.195          | 56   | 94890               | 163.620 | ug/l   | 99       |
| 14) Allyl chloride           | 5.042          | 41   | 70371               | 19.471  | ug/l   | 99       |
| 15) Acrylonitrile            | 5.730          | 53   | 148029              | 107.269 | ug/l   | 99       |
| 16) Acetone                  | 4.447          | 43   | 143519              | 123.448 | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.724          | 76   | 160142              | 20.738  | ug/l   | 95       |
| 18) Methyl Acetate           | 5.042          | 43   | 82099               | 20.844  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.806          | 73   | 224282              | 22.213  | ug/l   | 96       |
| 20) Methylene Chloride       | 5.289          | 84   | 74568               | 21.337  | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.800          | 96   | 66715               | 19.856  | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.683          | 45   | 182167              | 21.373  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.618          | 43   | 613376              | 111.350 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.583          | 63   | 115065              | 20.253  | ug/l   | 98       |
| 25) 2-Butanone               | 7.488          | 43   | 189098              | 106.529 | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 7.500          | 77   | 97700               | 20.403  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.500          | 96   | 80707               | 20.595  | ug/l   | 97       |
| 28) Bromochloromethane       | 7.818          | 49   | 47274               | 20.529  | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.847          | 42   | 123752              | 112.958 | ug/l   | 99       |
| 30) Chloroform               | 7.977          | 83   | 131641              | 20.940  | ug/l   | 96       |
| 31) Cyclohexane              | 8.259          | 56   | 105078              | 18.867  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 116100              | 20.228  | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 88398               | 19.010  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.565          | 43   | 83759               | 22.477  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.371          | 117  | 103445              | 19.949  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.606          | 83   | 115839              | 20.399  | ug/l   | 97       |
| 40) Benzene                  | 8.612          | 78   | 282848              | 20.342  | ug/l   | 100      |

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 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
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Quant Time: Jan 19 00:47:29 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011623W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 17 03:59:22 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.788  | 41   | 43006    | 22.022  | ug/l   | 99       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 99374    | 20.888  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 131072   | 21.602  | ug/l   | 100      |
| 44) Trichloroethene           | 9.359  | 130  | 78772    | 20.030  | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.630  | 63   | 67216    | 20.191  | ug/l   | 99       |
| 46) Dibromomethane            | 9.712  | 93   | 52243    | 20.785  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.894  | 83   | 102581   | 21.043  | ug/l # | 97       |
| 48) Methyl methacrylate       | 9.688  | 41   | 59312    | 20.648  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 27767    | 458.114 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 393462   | 110.463 | ug/l   | 100      |
| 52) Toluene                   | 10.635 | 92   | 185887   | 19.991  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 100514   | 21.629  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 111811   | 20.913  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 11.024 | 97   | 75843    | 21.339  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 105445   | 22.980  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 121733   | 21.076  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 159204   | 102.775 | ug/l   | 99       |
| 59) 2-Hexanone                | 11.200 | 43   | 284627   | 110.271 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.365 | 129  | 82084    | 21.939  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 76416    | 21.540  | ug/l   | 100      |
| 64) Tetrachloroethene         | 11.106 | 164  | 82938    | 19.553  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.894 | 112  | 199595   | 20.075  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 76881    | 20.783  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.965 | 91   | 348791   | 20.497  | ug/l   | 97       |
| 68) m/p-Xylenes               | 12.076 | 106  | 281056   | 41.190  | ug/l   | 100      |
| 69) o-Xylene                  | 12.400 | 106  | 138808   | 20.715  | ug/l   | 99       |
| 70) Styrene                   | 12.412 | 104  | 220735   | 20.631  | ug/l   | 99       |
| 71) Bromoform                 | 12.582 | 173  | 58460    | 21.883  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.700 | 105  | 356550   | 21.213  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.494 | 43   | 107249   | 22.182  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 103961   | 21.516  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 82465m   | 20.271  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 85842    | 21.525  | ug/l   | 99       |
| 78) n-propylbenzene           | 13.041 | 91   | 397648   | 20.967  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 240163   | 20.636  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 302195   | 21.461  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 28248    | 21.632  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 13.129 | 91   | 240163   | 20.636  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 273765   | 21.859  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 298572   | 21.146  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 363396   | 20.911  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 308099   | 21.560  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 157868   | 19.927  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 152658   | 20.317  | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.059 | 91   | 231500   | 20.407  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.335 | 117  | 51835    | 21.016  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 156171   | 19.792  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 18115    | 21.568  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 74776    | 20.406  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 39451    | 18.841  | ug/l   | 97       |
| 95) Naphthalene               | 15.647 | 128  | 224357   | 20.982  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 72006    | 20.510  | ug/l   | 98       |

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ALS Vial : 6 Sample Multiplier: 1

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APPROVED

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Quant Time: Jan 19 00:47:29 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011623W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 17 03:59:22 2023  
Response via : Initial Calibration

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

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

