

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN010324\  
 Data File : VN080636.D  
 Acq On : 03 Jan 2024 13:45  
 Operator : JC\MD  
 Sample : VN0103WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0103WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 01/04/2024  
 Supervised By : Mahesh Dadoda 01/04/2024

Quant Time: Jan 04 01:58:07 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122723W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 28 03:07:01 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 342647              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 560383              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 482680              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 220665              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.576          | 65   | 227294              | 51.714  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 103.420% |         |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 187261              | 51.668  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 103.340% |         |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 676426              | 53.454  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 106.900% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 221273              | 51.957  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 103.920% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 65027               | 17.084  | ug/l   | 96       |
| 3) Chloromethane             | 2.359          | 50   | 95296               | 20.965  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.512          | 62   | 86908               | 20.518  | ug/l   | 96       |
| 5) Bromomethane              | 2.959          | 94   | 40692               | 25.281  | ug/l   | 96       |
| 6) Chloroethane              | 3.124          | 64   | 56103               | 21.215  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.500          | 101  | 131341              | 21.716  | ug/l   | 94       |
| 8) Diethyl Ether             | 3.953          | 74   | 52184               | 25.125  | ug/l   | 79       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 75618               | 22.904  | ug/l   | 96       |
| 10) Methyl Iodide            | 4.589          | 142  | 55539               | 24.349  | ug/l   | 95       |
| 11) Tert butyl alcohol       | 5.506          | 59   | 57400               | 97.074  | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.336          | 96   | 72362               | 22.850  | ug/l   | 94       |
| 13) Acrolein                 | 4.171          | 56   | 90875               | 135.929 | ug/l   | 96       |
| 14) Allyl chloride           | 5.018          | 41   | 109643              | 22.806  | ug/l   | 89       |
| 15) Acrylonitrile            | 5.712          | 53   | 200338              | 118.791 | ug/l   | 99       |
| 16) Acetone                  | 4.424          | 43   | 120999              | 101.275 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.712          | 76   | 187798              | 22.053  | ug/l   | 100      |
| 18) Methyl Acetate           | 5.018          | 43   | 168856              | 25.492  | ug/l   | 90       |
| 19) Methyl tert-butyl Ether  | 5.788          | 73   | 275507              | 24.165  | ug/l   | 97       |
| 20) Methylene Chloride       | 5.277          | 84   | 95367               | 25.016  | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.788          | 96   | 86770               | 22.678  | ug/l   | 89       |
| 22) Diisopropyl ether        | 6.665          | 45   | 235200              | 22.025  | ug/l   | 91       |
| 23) Vinyl Acetate            | 6.600          | 43   | 607707              | 102.605 | ug/l # | 91       |
| 24) 1,1-Dichloroethane       | 6.565          | 63   | 153428              | 21.435  | ug/l   | 98       |
| 25) 2-Butanone               | 7.482          | 43   | 169552              | 75.928  | ug/l   | 90       |
| 26) 2,2-Dichloropropane      | 7.494          | 77   | 112855              | 18.113  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.488          | 96   | 82995               | 18.237  | ug/l   | 94       |
| 28) Bromochloromethane       | 7.812          | 49   | 63881               | 19.194  | ug/l   | 90       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 111244              | 76.387  | ug/l   | 87       |
| 30) Chloroform               | 7.965          | 83   | 139212              | 19.372  | ug/l   | 94       |
| 31) Cyclohexane              | 8.253          | 56   | 92511               | 15.557  | ug/l   | 87       |
| 32) 1,1,1-Trichloroethane    | 8.165          | 97   | 118736              | 18.325  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 94436               | 16.930  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.553          | 43   | 69896               | 16.607  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.359          | 117  | 103155              | 18.077  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.600          | 83   | 80637               | 17.626  | ug/l   | 91       |
| 40) Benzene                  | 8.606          | 78   | 298878              | 18.610  | ug/l   | 98       |

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 ALS Vial : 6 Sample Multiplier: 1

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 Quant Title : SW846 8260  
 QLast Update : Thu Dec 28 03:07:01 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.782  | 41   | 40687    | 15.676  | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 104101   | 20.143  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 121562   | 17.819  | ug/l   | 96       |
| 44) Trichloroethene           | 9.353  | 130  | 72577    | 17.431  | ug/l   | 99       |
| 46) Dibromomethane            | 9.712  | 93   | 50647    | 19.857  | ug/l   | 90       |
| 47) Bromodichloromethane      | 9.888  | 83   | 108220   | 20.242  | ug/l # | 97       |
| 48) Methyl methacrylate       | 9.676  | 41   | 68980    | 18.211  | ug/l   | 87       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 20037    | 330.952 | ug/l # | 82       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 357878   | 92.234  | ug/l   | 99       |
| 52) Toluene                   | 10.635 | 92   | 179461   | 20.235  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 110015   | 20.411  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 121957   | 20.218  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 74292    | 21.118  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.876 | 69   | 72736    | 21.108  | ug/l # | 89       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 126151   | 21.164  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 241827   | 99.377  | ug/l   | 97       |
| 59) 2-Hexanone                | 11.194 | 43   | 259077   | 88.591  | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.359 | 129  | 78371    | 20.006  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.470 | 107  | 70159    | 19.780  | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.100 | 164  | 61109    | 18.947  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.894 | 112  | 187298   | 18.653  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 73159    | 18.941  | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.965 | 91   | 315764   | 18.810  | ug/l   | 97       |
| 68) m/p-Xylenes               | 12.070 | 106  | 235364   | 37.787  | ug/l   | 94       |
| 69) o-Xylene                  | 12.400 | 106  | 114748   | 18.757  | ug/l   | 92       |
| 70) Styrene                   | 12.412 | 104  | 173658   | 19.521  | ug/l   | 97       |
| 71) Bromoform                 | 12.582 | 173  | 51187    | 18.734  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.694 | 105  | 288876   | 19.127  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.494 | 43   | 93102    | 17.473  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 94285    | 18.090  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 82894m   | 17.466  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 75120    | 18.727  | ug/l   | 99       |
| 78) n-propylbenzene           | 13.035 | 91   | 325208   | 18.829  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 213959   | 18.976  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 247973   | 19.444  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 28135    | 16.057  | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 219402   | 19.027  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 200496   | 18.811  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 252704   | 19.570  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.617 | 105  | 259354   | 18.388  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 228076   | 17.943  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 130994   | 18.120  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.811 | 146  | 131103   | 18.041  | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.059 | 91   | 187664   | 17.803  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.335 | 117  | 36416    | 16.540  | ug/l   | 75       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 127178   | 18.226  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 17700    | 16.454  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 61946    | 16.826  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.505 | 225  | 29491    | 15.523  | ug/l   | 99       |
| 95) Naphthalene               | 15.641 | 128  | 166578   | 14.538  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 55008    | 14.780  | ug/l   | 98       |

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ALS Vial : 6 Sample Multiplier: 1

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MSVOA\_N  
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Reviewed By :John Carlone 01/04/2024  
Supervised By :Mahesh Dadoda 01/04/2024

Quant Time: Jan 04 01:58:07 2024  
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Quant Title : SW846 8260  
QLast Update : Thu Dec 28 03:07:01 2023  
Response via : Initial Calibration

| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

