

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022822\  
 Data File : VN071099.D  
 Acq On : 28 Feb 2022 17:08  
 Operator : JC\MD  
 Sample : VN0228WBS02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0228WBS02

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/01/2022  
 Supervised By : Mahesh Dadoda 03/01/2022

Quant Time: Mar 01 04:22:46 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021522W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 21 07:57:15 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.081          | 168  | 643466              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.963          | 114  | 1037168             | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.739         | 117  | 926221              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.668         | 152  | 378191              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.434          | 65   | 409704              | 55.739  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 111.480% |         |        |          |
| 35) Dibromofluoromethane     | 8.016          | 113  | 311747              | 50.534  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 101.060% |         |        |          |
| 50) Toluene-d8               | 10.439         | 98   | 1222011             | 49.325  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 98.660%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.727         | 95   | 412333              | 46.562  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 93.120%  |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.069          | 85   | 113458              | 16.976  | ug/l   | 100      |
| 3) Chloromethane             | 2.299          | 50   | 152873              | 18.198  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.446          | 62   | 138135              | 16.427  | ug/l   | 97       |
| 5) Bromomethane              | 2.846          | 94   | 84210               | 17.628  | ug/l   | 99       |
| 6) Chloroethane              | 3.016          | 64   | 90740               | 16.448  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.375          | 101  | 196717              | 18.667  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.822          | 74   | 86825               | 18.952  | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 4.216          | 101  | 117082              | 18.108  | ug/l   | 96       |
| 10) Methyl Iodide            | 4.422          | 142  | 157403              | 17.577  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.351          | 59   | 147364              | 110.008 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.187          | 96   | 106530              | 16.911  | ug/l   | 89       |
| 13) Acrolein                 | 4.040          | 56   | 93218               | 77.876  | ug/l   | 99       |
| 14) Allyl chloride           | 4.840          | 41   | 230417              | 19.179  | ug/l # | 86       |
| 15) Acrylonitrile            | 5.551          | 53   | 447777              | 113.483 | ug/l   | 99       |
| 16) Acetone                  | 4.281          | 43   | 372968              | 92.135  | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.534          | 76   | 254877              | 14.109  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.851          | 43   | 208132              | 23.158  | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 5.610          | 73   | 458398              | 20.744  | ug/l   | 98       |
| 20) Methylene Chloride       | 5.098          | 84   | 138131              | 18.776  | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 5.598          | 96   | 118020              | 17.455  | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.492          | 45   | 506039              | 21.961  | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.428          | 43   | 2136103             | 109.511 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.381          | 63   | 257357              | 19.924  | ug/l   | 99       |
| 25) 2-Butanone               | 7.328          | 43   | 599543              | 111.334 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 7.328          | 77   | 202407              | 18.854  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.316          | 96   | 149062              | 19.181  | ug/l   | 91       |
| 28) Bromochloromethane       | 7.657          | 49   | 110725              | 21.179  | ug/l   | 85       |
| 29) Tetrahydrofuran          | 7.681          | 42   | 407318              | 116.759 | ug/l   | 94       |
| 30) Chloroform               | 7.810          | 83   | 248753              | 19.580  | ug/l   | 98       |
| 31) Cyclohexane              | 8.092          | 56   | 242513              | 19.077  | ug/l   | 92       |
| 32) 1,1,1-Trichloroethane    | 8.010          | 97   | 208217              | 18.978  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.222          | 75   | 178633              | 17.674  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.404          | 43   | 249878              | 23.053  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.198          | 117  | 171870              | 17.259  | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.457          | 83   | 220563              | 16.959  | ug/l   | 90       |
| 40) Benzene                  | 8.457          | 78   | 560222              | 18.739  | ug/l   | 97       |

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 Sample : VN0228WBS02  
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 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0228WBS02

Quant Time: Mar 01 04:22:46 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021522W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 21 07:57:15 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 03/01/2022  
 Supervised By : Mahesh Dadoda 03/01/2022

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.634  | 41   | 130451   | 22.850  | ug/l # | 85       |
| 42) 1,2-Dichloroethane        | 8.522  | 62   | 201127   | 19.753  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.557  | 43   | 383437   | 22.442  | ug/l   | 97       |
| 44) Trichloroethene           | 9.216  | 130  | 135311   | 17.188  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.486  | 63   | 154032   | 20.113  | ug/l   | 94       |
| 46) Dibromomethane            | 9.575  | 93   | 92713    | 18.396  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.757  | 83   | 190428   | 18.696  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.551  | 41   | 174899   | 21.627  | ug/l # | 84       |
| 49) 1,4-Dioxane               | 9.563  | 88   | 64332    | 447.882 | ug/l   | 90       |
| 51) 4-Methyl-2-Pentanone      | 10.327 | 43   | 1198684  | 115.312 | ug/l   | 99       |
| 52) Toluene                   | 10.498 | 92   | 346768   | 18.459  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.716 | 75   | 204410   | 18.456  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.186 | 75   | 229426   | 18.863  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.892 | 97   | 139341   | 18.949  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.757 | 69   | 230197   | 20.777  | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 11.039 | 76   | 251504   | 19.773  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.039 | 63   | 172246   | 92.802  | ug/l   | 95       |
| 59) 2-Hexanone                | 11.080 | 43   | 813641   | 113.807 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.233 | 129  | 139271   | 17.921  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.339 | 107  | 139494   | 18.650  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.975 | 164  | 117958   | 16.353  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.763 | 112  | 365116   | 18.294  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.839 | 131  | 134959   | 18.550  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.839 | 91   | 650457   | 18.621  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.945 | 106  | 494578   | 36.654  | ug/l   | 98       |
| 69) o-Xylene                  | 12.274 | 106  | 247345   | 18.765  | ug/l   | 98       |
| 70) Styrene                   | 12.292 | 104  | 382876   | 18.268  | ug/l   | 97       |
| 71) Bromoform                 | 12.451 | 173  | 102350   | 17.664  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.574 | 105  | 632094   | 20.764  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.386 | 43   | 226953   | 23.324  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.821 | 83   | 220917   | 22.838  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.874 | 75   | 167183m  | 18.775  | ug/l   |          |
| 77) Bromobenzene              | 12.857 | 156  | 147273   | 19.763  | ug/l   | 84       |
| 78) n-propylbenzene           | 12.916 | 91   | 688297   | 20.124  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 431179   | 20.759  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 13.057 | 105  | 509093   | 20.643  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.621 | 75   | 56514    | 20.566  | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 13.098 | 91   | 401096   | 19.894  | ug/l   | 94       |
| 83) tert-Butylbenzene         | 13.321 | 119  | 457656   | 19.567  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.363 | 105  | 493840   | 20.342  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.498 | 105  | 605766   | 19.656  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.610 | 119  | 488356   | 19.303  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.610 | 146  | 246220   | 18.665  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.692 | 146  | 237358   | 18.365  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.939 | 91   | 355158   | 17.206  | ug/l   | 96       |
| 90) Hexachloroethane          | 14.204 | 117  | 86015    | 19.037  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene       | 13.986 | 146  | 241564   | 19.501  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.598 | 75   | 32377    | 20.658  | ug/l   | 92       |
| 93) 1,2,4-Trichlorobenzene    | 15.257 | 180  | 104679   | 16.432  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.362 | 225  | 72073    | 15.955  | ug/l   | 99       |
| 95) Naphthalene               | 15.504 | 128  | 247646   | 18.175  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.698 | 180  | 96289    | 16.762  | ug/l   | 98       |

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ALS Vial : 14 Sample Multiplier: 1

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Manual Integrations  
APPROVED

Reviewed By :John Carlone 03/01/2022  
Supervised By :Mahesh Dadoda 03/01/2022

Quant Time: Mar 01 04:22:46 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021522W.M  
Quant Title : SW846 8260  
QLast Update : Mon Feb 21 07:57:15 2022  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

