

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN041222\  
 Data File : VN071957.D  
 Acq On : 12 Apr 2022 16:37  
 Operator : JC\MD  
 Sample : VN0412WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0412WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 04/13/2022  
 Supervised By : Mahesh Dadoda 04/13/2022

Quant Time: Apr 13 04:45:05 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N033022W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 31 01:57:54 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.081          | 168  | 575898     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.963          | 114  | 877690     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.739         | 117  | 792926     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.668         | 152  | 324121     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.433          | 65   | 300232     | 45.666   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 91.340%  |        |          |
| 35) Dibromofluoromethane     | 8.016          | 113  | 263242     | 50.969   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 101.940% |        |          |
| 50) Toluene-d8               | 10.439         | 98   | 1047707    | 49.589   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 99.180%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.727         | 95   | 341186     | 49.932   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 99.860%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.069          | 85   | 111823     | 24.424   | ug/l   | 99       |
| 3) Chloromethane             | 2.299          | 50   | 119604     | 20.615   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.446          | 62   | 126514     | 19.857   | ug/l   | 99       |
| 5) Bromomethane              | 2.846          | 94   | 84199      | 20.330   | ug/l   | 100      |
| 6) Chloroethane              | 3.010          | 64   | 77725      | 16.958   | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.375          | 101  | 165953     | 20.473   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.828          | 74   | 66456      | 19.399   | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.216          | 101  | 99466      | 19.912   | ug/l   | 98       |
| 10) Methyl Iodide            | 4.422          | 142  | 133736     | 19.153   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.363          | 59   | 96852      | 90.775   | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.187          | 96   | 95710      | 20.135   | ug/l   | 92       |
| 13) Acrolein                 | 4.045          | 56   | 74482      | 57.253   | ug/l   | 100      |
| 14) Allyl chloride           | 4.840          | 41   | 144885     | 18.779   | ug/l   | 92       |
| 15) Acrylonitrile            | 5.551          | 53   | 301638     | 97.264   | ug/l   | 99       |
| 16) Acetone                  | 4.287          | 43   | 266357     | 94.798   | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.534          | 76   | 242101     | 22.198   | ug/l   | 97       |
| 18) Methyl Acetate           | 4.845          | 43   | 135040     | 18.453   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.610          | 73   | 337025     | 19.085   | ug/l   | 94       |
| 20) Methylene Chloride       | 5.092          | 84   | 116639     | 19.695   | ug/l   | 93       |
| 21) trans-1,2-Dichloroethene | 5.598          | 96   | 103586     | 19.851   | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.492          | 45   | 318087     | 18.938   | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.428          | 43   | 1318549    | 98.718   | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.381          | 63   | 192518     | 19.525   | ug/l   | 99       |
| 25) 2-Butanone               | 7.328          | 43   | 387469     | 95.658   | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 7.322          | 77   | 160309     | 18.925   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.322          | 96   | 127337     | 19.899   | ug/l   | 95       |
| 28) Bromochloromethane       | 7.657          | 49   | 75578      | 19.001   | ug/l   | 94       |
| 29) Tetrahydrofuran          | 7.681          | 42   | 252029     | 96.092   | ug/l   | 98       |
| 30) Chloroform               | 7.816          | 83   | 199092     | 19.122   | ug/l   | 100      |
| 31) Cyclohexane              | 8.092          | 56   | 185453     | 20.742   | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 8.010          | 97   | 169475     | 19.027   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.222          | 75   | 147741     | 20.485   | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.410          | 43   | 151414     | 19.181   | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.204          | 117  | 143959     | 20.366   | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.457          | 83   | 190694     | 22.212   | ug/l   | 98       |
| 40) Benzene                  | 8.457          | 78   | 467888     | 20.536   | ug/l   | 100      |

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 ALS Vial : 5 Sample Multiplier: 1

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 ClientSampleId :  
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Manual Integrations  
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Quant Time: Apr 13 04:45:05 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N033022W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 31 01:57:54 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.633  | 41   | 67336    | 17.421  | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.528  | 62   | 147268   | 18.686  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.557  | 43   | 236581   | 18.018  | ug/l   | 97       |
| 44) Trichloroethene           | 9.216  | 130  | 122170   | 20.814  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.486  | 63   | 114723   | 20.156  | ug/l   | 99       |
| 46) Dibromomethane            | 9.575  | 93   | 75853    | 19.628  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.757  | 83   | 153807   | 20.219  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.557  | 41   | 107130   | 19.666  | ug/l   | 92       |
| 49) 1,4-Dioxane               | 9.563  | 88   | 49835    | 377.006 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.327 | 43   | 734662   | 97.316  | ug/l   | 97       |
| 52) Toluene                   | 10.504 | 92   | 302081   | 20.975  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.716 | 75   | 159697   | 20.031  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.186 | 75   | 180230   | 20.459  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 10.892 | 97   | 115910   | 19.555  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.757 | 69   | 172188   | 20.364  | ug/l # | 91       |
| 57) 1,3-Dichloropropane       | 11.039 | 76   | 199255   | 20.106  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.039 | 63   | 175855   | 79.936  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.080 | 43   | 522791   | 98.361  | ug/l   | 94       |
| 60) Dibromochloromethane      | 11.233 | 129  | 118879   | 20.569  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.339 | 107  | 118260   | 20.269  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.974 | 164  | 108612   | 20.743  | ug/l   | 99       |
| 65) Chlorobenzene             | 11.769 | 112  | 316556   | 19.938  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.839 | 131  | 113136   | 19.747  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.839 | 91   | 551263   | 20.510  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.951 | 106  | 426449   | 41.294  | ug/l   | 100      |
| 69) o-Xylene                  | 12.274 | 106  | 209777   | 20.465  | ug/l   | 98       |
| 70) Styrene                   | 12.292 | 104  | 328765   | 21.169  | ug/l   | 99       |
| 71) Bromoform                 | 12.457 | 173  | 89406    | 20.492  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.574 | 105  | 531280   | 19.452  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.386 | 43   | 144985   | 18.527  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.821 | 83   | 172063   | 18.881  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.874 | 75   | 128476m  | 17.111  | ug/l   |          |
| 77) Bromobenzene              | 12.857 | 156  | 129925   | 18.976  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.916 | 91   | 569640   | 19.827  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 361744   | 19.633  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 13.057 | 105  | 439302   | 20.300  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.621 | 75   | 44522    | 18.375  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 13.104 | 91   | 333228   | 19.511  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.321 | 119  | 387589   | 19.594  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.363 | 105  | 420625   | 19.921  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.498 | 105  | 515463   | 20.101  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.610 | 119  | 422334   | 20.656  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.610 | 146  | 214042   | 19.622  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.692 | 146  | 205033   | 19.267  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.939 | 91   | 289697   | 19.103  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.204 | 117  | 72868    | 19.469  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 13.986 | 146  | 208707   | 19.489  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.598 | 75   | 27459    | 19.426  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 15.262 | 180  | 94963    | 19.727  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.362 | 225  | 63245    | 20.025  | ug/l   | 97       |
| 95) Naphthalene               | 15.504 | 128  | 236050   | 18.579  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.692 | 180  | 93930    | 20.304  | ug/l   | 97       |

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ALS Vial : 5 Sample Multiplier: 1

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Manual Integrations  
APPROVED

Reviewed By :John Carlone 04/13/2022  
Supervised By :Mahesh Dadoda 04/13/2022

Quant Time: Apr 13 04:45:05 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N033022W.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 31 01:57:54 2022  
Response via : Initial Calibration

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

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

