

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051022\  
 Data File : VN072395.D  
 Acq On : 10 May 2022 16:03  
 Operator : JC\MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN051022

Quant Time: May 11 03:00:40 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051022W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 10 15:43:28 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/11/2022  
 Supervised By : Mahesh Dadoda 05/11/2022

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.081          | 168  | 262596     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.963          | 114  | 423095     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.739         | 117  | 391167     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.669         | 152  | 174769     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.434          | 65   | 175832     | 43.716   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 87.440%  |        |          |
| 35) Dibromofluoromethane     | 8.016          | 113  | 131656     | 46.772   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 93.540%  |        |          |
| 50) Toluene-d8               | 10.439         | 98   | 518065     | 48.325   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 96.660%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.727         | 95   | 180779     | 50.777   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 101.560% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.069          | 85   | 153179     | 46.772   | ug/l   | 98       |
| 3) Chloromethane             | 2.299          | 50   | 154054     | 50.266   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.440          | 62   | 129942     | 46.598   | ug/l   | 99       |
| 5) Bromomethane              | 2.828          | 94   | 76717      | 46.208   | ug/l   | 99       |
| 6) Chloroethane              | 2.999          | 64   | 73445      | 50.282   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.369          | 101  | 245140     | 47.430   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.822          | 74   | 90393      | 48.480   | ug/l   | 87       |
| 9) 1,1,2-Trichlorotrifluo... | 4.210          | 101  | 136994     | 48.576   | ug/l   | 98       |
| 10) Methyl Iodide            | 4.422          | 142  | 178522     | 47.753   | ug/l   | 91       |
| 11) Tert butyl alcohol       | 5.363          | 59   | 145264     | 220.878  | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.181          | 96   | 123296     | 46.659   | ug/l   | 95       |
| 13) Acrolein                 | 4.034          | 56   | 136516     | 212.161  | ug/l   | 96       |
| 14) Allyl chloride           | 4.840          | 41   | 244290     | 49.653   | ug/l   | 95       |
| 15) Acrylonitrile            | 5.546          | 53   | 422310     | 236.309  | ug/l   | 99       |
| 16) Acetone                  | 4.281          | 43   | 371881     | 233.464  | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.528          | 76   | 323815     | 47.250   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.851          | 43   | 216068     | 46.071   | ug/l   | 92       |
| 19) Methyl tert-butyl Ether  | 5.610          | 73   | 477831     | 50.037   | ug/l   | 95       |
| 20) Methylene Chloride       | 5.093          | 84   | 147784     | 45.249   | ug/l   | 88       |
| 21) trans-1,2-Dichloroethene | 5.593          | 96   | 131247     | 47.473   | ug/l   | 91       |
| 22) Diisopropyl ether        | 6.493          | 45   | 486993     | 48.711   | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.428          | 43   | 2082263    | 248.917  | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 6.381          | 63   | 270968     | 48.030   | ug/l   | 99       |
| 25) 2-Butanone               | 7.328          | 43   | 573991     | 228.321  | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 7.322          | 77   | 233649     | 49.283   | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.322          | 96   | 158962     | 47.827   | ug/l   | 93       |
| 28) Bromochloromethane       | 7.651          | 49   | 113069     | 47.201   | ug/l   | 87       |
| 29) Tetrahydrofuran          | 7.675          | 42   | 387883     | 237.405  | ug/l   | 89       |
| 30) Chloroform               | 7.816          | 83   | 274193     | 47.773   | ug/l   | 98       |
| 31) Cyclohexane              | 8.092          | 56   | 244317     | 45.842   | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 8.010          | 97   | 247359     | 46.988   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.216          | 75   | 201609     | 49.868   | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.404          | 43   | 226596     | 46.714   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.198          | 117  | 219759     | 48.568   | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.457          | 83   | 251302     | 55.308   | ug/l   | 96       |
| 40) Benzene                  | 8.457          | 78   | 592790     | 49.082   | ug/l   | 99       |

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 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
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Quant Time: May 11 03:00:40 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051022W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 10 15:43:28 2022  
 Response via : Initial Calibration

Manual Integrations  
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Reviewed By : John Carlone 05/11/2022  
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| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.628  | 41   | 130567   | 54.362   | ug/l # | 83       |
| 42) 1,2-Dichloroethane        | 8.522  | 62   | 230953   | 47.577   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.551  | 43   | 366405   | 49.178   | ug/l   | 96       |
| 44) Trichloroethene           | 9.210  | 130  | 148728   | 48.510   | ug/l   | 90       |
| 45) 1,2-Dichloropropane       | 9.486  | 63   | 156538   | 50.752   | ug/l   | 99       |
| 46) Dibromomethane            | 9.575  | 93   | 102786   | 47.861   | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.757  | 83   | 217261   | 49.623   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.557  | 41   | 183062   | 52.662   | ug/l   | 91       |
| 49) 1,4-Dioxane               | 9.563  | 88   | 60898    | 1026.993 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.328 | 43   | 1159528  | 250.631  | ug/l   | 95       |
| 52) Toluene                   | 10.504 | 92   | 381009   | 51.162   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.716 | 75   | 236404   | 53.046   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.186 | 75   | 254930   | 53.615   | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 10.892 | 97   | 148591   | 47.895   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.757 | 69   | 244411   | 54.968   | ug/l   | 89       |
| 57) 1,3-Dichloropropane       | 11.039 | 76   | 263940   | 49.961   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.033 | 63   | 291051   | 242.689  | ug/l   | 97       |
| 59) 2-Hexanone                | 11.080 | 43   | 834293   | 257.182  | ug/l   | 92       |
| 60) Dibromochloromethane      | 11.233 | 129  | 168422   | 51.105   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.339 | 107  | 158146   | 51.150   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.975 | 164  | 136292   | 48.406   | ug/l   | 95       |
| 65) Chlorobenzene             | 11.769 | 112  | 402687   | 50.387   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.833 | 131  | 155284   | 48.545   | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.839 | 91   | 739863   | 53.656   | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.951 | 106  | 566566   | 108.336  | ug/l   | 95       |
| 69) o-Xylene                  | 12.275 | 106  | 280620   | 54.613   | ug/l   | 97       |
| 70) Styrene                   | 12.286 | 104  | 449147   | 57.137   | ug/l   | 97       |
| 71) Bromoform                 | 12.451 | 173  | 119100   | 50.474   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.574 | 105  | 730702   | 50.469   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.386 | 43   | 255823   | 49.989   | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.822 | 83   | 221999   | 42.235   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.874 | 75   | 192638m  | 42.261   | ug/l   |          |
| 77) Bromobenzene              | 12.857 | 156  | 166415   | 48.043   | ug/l   | 96       |
| 78) n-propylbenzene           | 12.916 | 91   | 825240   | 53.266   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 505886   | 49.705   | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 13.051 | 105  | 615342   | 51.894   | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.622 | 75   | 66391    | 48.589   | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 13.098 | 91   | 490544   | 50.857   | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.322 | 119  | 537589   | 51.787   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.363 | 105  | 596591   | 51.720   | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.498 | 105  | 732923   | 52.941   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.610 | 119  | 605935   | 56.188   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.610 | 146  | 294758   | 49.341   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.686 | 146  | 288451   | 48.536   | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.939 | 91   | 466952   | 56.646   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.204 | 117  | 104960   | 48.706   | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene       | 13.980 | 146  | 289706   | 48.557   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.598 | 75   | 46196    | 50.542   | ug/l   | 87       |
| 93) 1,2,4-Trichlorobenzene    | 15.257 | 180  | 129283   | 57.202   | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.363 | 225  | 75905    | 50.724   | ug/l   | 98       |
| 95) Naphthalene               | 15.504 | 128  | 392840   | 47.219   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.698 | 180  | 131024   | 57.849   | ug/l   | 98       |

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 ALS Vial : 12 Sample Multiplier: 1

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

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

## Manual Integrations

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