

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031924\  
 Data File : VN081461.D  
 Acq On : 19 Mar 2024 11:03  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Mar 20 01:13:33 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031824W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 19 06:00:00 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 03/20/2024  
 Supervised By : Mahesh Dadoda 03/20/2024

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 446611              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 776137              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 701233              | 50.000  | ug/l   | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4   | 13.788         | 152  | 324213              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.577          | 65   | 296577              | 52.072  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 104.140% |         |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 253557              | 51.765  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 103.540% |         |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 861344              | 48.646  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 97.300%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 301934              | 48.394  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 64 - 133 |      | Recovery = 96.780%  |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 240628              | 40.014  | ug/l   | 93       |
| 3) Chloromethane             | 2.359          | 50   | 258211              | 43.126  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.518          | 62   | 277883              | 41.355  | ug/l   | 92       |
| 5) Bromomethane              | 2.959          | 94   | 205435              | 43.230  | ug/l   | 93       |
| 6) Chloroethane              | 3.124          | 64   | 193860              | 42.019  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.500          | 101  | 432772              | 43.215  | ug/l   | 95       |
| 8) Diethyl Ether             | 3.959          | 74   | 166762              | 50.317  | ug/l   | 78       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 242681              | 42.649  | ug/l   | # 87     |
| 10) Methyl Iodide            | 4.594          | 142  | 293918              | 51.869  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.518          | 59   | 194884              | 196.349 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.342          | 96   | 231655              | 43.951  | ug/l   | 84       |
| 13) Acrolein                 | 4.177          | 56   | 266117              | 298.797 | ug/l   | 98       |
| 14) Allyl chloride           | 5.024          | 41   | 338318              | 51.225  | ug/l   | # 91     |
| 15) Acrylonitrile            | 5.718          | 53   | 590434              | 222.361 | ug/l   | 97       |
| 16) Acetone                  | 4.424          | 43   | 371342              | 201.746 | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.712          | 76   | 642011              | 42.446  | ug/l   | 96       |
| 18) Methyl Acetate           | 5.018          | 43   | 266826              | 47.020  | ug/l   | # 87     |
| 19) Methyl tert-butyl Ether  | 5.794          | 73   | 846093              | 51.293  | ug/l   | 93       |
| 20) Methylene Chloride       | 5.271          | 84   | 277797              | 46.074  | ug/l   | 85       |
| 21) trans-1,2-Dichloroethene | 5.783          | 96   | 267159              | 45.460  | ug/l   | 91       |
| 22) Diisopropyl ether        | 6.665          | 45   | 788715              | 51.396  | ug/l   | # 93     |
| 23) Vinyl Acetate            | 6.600          | 43   | 3091132             | 253.061 | ug/l   | # 89     |
| 24) 1,1-Dichloroethane       | 6.571          | 63   | 483018              | 46.994  | ug/l   | 97       |
| 25) 2-Butanone               | 7.477          | 43   | 672129              | 212.896 | ug/l   | # 85     |
| 26) 2,2-Dichloropropane      | 7.488          | 77   | 424336              | 47.599  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.483          | 96   | 321148              | 48.298  | ug/l   | 86       |
| 28) Bromochloromethane       | 7.806          | 49   | 201944              | 48.237  | ug/l   | # 52     |
| 29) Tetrahydrofuran          | 7.835          | 42   | 477192              | 224.369 | ug/l   | # 80     |
| 30) Chloroform               | 7.965          | 83   | 530621              | 48.224  | ug/l   | 98       |
| 31) Cyclohexane              | 8.259          | 56   | 377125              | 40.691  | ug/l   | # 77     |
| 32) 1,1,1-Trichloroethane    | 8.171          | 97   | 444571              | 44.533  | ug/l   | 93       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 361497              | 43.855  | ug/l   | 95       |
| 37) Ethyl Acetate            | 7.559          | 43   | 305857              | 43.331  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.359          | 117  | 389920              | 43.181  | ug/l   | 94       |
| 39) Methylcyclohexane        | 9.600          | 83   | 422033              | 45.846  | ug/l   | 86       |
| 40) Benzene                  | 8.606          | 78   | 1136482             | 47.158  | ug/l   | 99       |

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 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/20/2024  
 Supervised By : Mahesh Dadoda 03/20/2024

Quant Time: Mar 20 01:13:33 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031824W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 19 06:00:00 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 166338   | 44.560  | ug/l   | 91       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 407047   | 47.995  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 534657   | 45.696  | ug/l # | 91       |
| 44) Trichloroethene           | 9.353  | 130  | 304396   | 44.909  | ug/l   | 88       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 284229   | 48.665  | ug/l   | 97       |
| 46) Dibromomethane            | 9.706  | 93   | 210317   | 47.417  | ug/l # | 87       |
| 47) Bromodichloromethane      | 9.888  | 83   | 420735   | 48.516  | ug/l # | 96       |
| 48) Methyl methacrylate       | 9.676  | 41   | 254615   | 47.180  | ug/l # | 84       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 103554   | 798.471 | ug/l # | 68       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 1584663  | 221.958 | ug/l   | 92       |
| 52) Toluene                   | 10.629 | 92   | 706894   | 46.150  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 457827   | 48.891  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 490091   | 48.814  | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 282882   | 45.890  | ug/l   | 93       |
| 56) Ethyl methacrylate        | 10.871 | 69   | 416413   | 45.817  | ug/l # | 86       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 488301   | 48.321  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 1045544  | 269.555 | ug/l # | 85       |
| 59) 2-Hexanone                | 11.194 | 43   | 1154973  | 218.807 | ug/l   | 92       |
| 60) Dibromochloromethane      | 11.359 | 129  | 321359   | 47.403  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.470 | 107  | 293700   | 46.733  | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.106 | 164  | 290608   | 43.355  | ug/l   | 88       |
| 65) Chlorobenzene             | 11.894 | 112  | 749824   | 45.232  | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 290528   | 47.287  | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.965 | 91   | 1317879  | 45.767  | ug/l   | 98       |
| 68) m/p-Xylenes               | 12.070 | 106  | 1019315  | 94.424  | ug/l   | 95       |
| 69) o-Xylene                  | 12.394 | 106  | 498396   | 47.028  | ug/l   | 94       |
| 70) Styrene                   | 12.412 | 104  | 828044   | 48.446  | ug/l   | 96       |
| 71) Bromoform                 | 12.582 | 173  | 205449   | 44.499  | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.694 | 105  | 1261552  | 45.648  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.494 | 43   | 468837   | 46.878  | ug/l # | 88       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 344433   | 42.389  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 317652m  | 40.959  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 300765   | 44.056  | ug/l   | 72       |
| 78) n-propylbenzene           | 13.035 | 91   | 1501340  | 46.001  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 887281   | 45.423  | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene    | 13.170 | 105  | 1087980  | 47.664  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 144652   | 50.404  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 898682   | 46.664  | ug/l   | 94       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 893420   | 45.389  | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 1080009  | 47.076  | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.617 | 105  | 1272781  | 45.232  | ug/l   | 94       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 1089968  | 47.386  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 572317   | 45.628  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 567342   | 43.683  | ug/l   | 97       |
| 89) n-Butylbenzene            | 14.059 | 91   | 943223   | 46.244  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.335 | 117  | 188648   | 43.306  | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 559166   | 46.317  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 75425    | 43.617  | ug/l   | 70       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 342802   | 49.108  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 130300   | 42.543  | ug/l   | 97       |
| 95) Naphthalene               | 15.641 | 128  | 1117230  | 49.393  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 333523   | 47.501  | ug/l   | 98       |

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Quant Time: Mar 20 01:13:33 2024  
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Quant Title : SW846 8260  
QLast Update : Tue Mar 19 06:00:00 2024  
Response via : Initial Calibration

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

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

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