

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN062722\  
 Data File : VN073175.D  
 Acq On : 27 Jun 2022 21:20  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Jun 28 06:39:52 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061722W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 18 06:22:45 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 06/28/2022  
 Supervised By : Mahesh Dadoda 06/30/2022

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.016          | 168  | 267397              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.904          | 114  | 472031              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.680         | 117  | 423308              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.610         | 152  | 194298              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.369          | 65   | 193526              | 53.532  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 107.060% |         |        |          |
| 35) Dibromofluoromethane     | 7.951          | 113  | 149985              | 51.407  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 102.820% |         |        |          |
| 50) Toluene-d8               | 10.374         | 98   | 557403              | 51.343  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 102.680% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.668         | 95   | 212238              | 54.367  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 108.740% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.046          | 85   | 118797              | 46.661  | ug/l   | 98       |
| 3) Chloromethane             | 2.269          | 50   | 118578              | 43.404  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.404          | 62   | 106219              | 46.522  | ug/l   | 97       |
| 5) Bromomethane              | 2.781          | 94   | 32421               | 36.072  | ug/l   | 99       |
| 6) Chloroethane              | 2.946          | 64   | 67557               | 47.295  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.310          | 101  | 213612              | 57.452  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.763          | 74   | 97679               | 50.904  | ug/l   | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 4.140          | 101  | 127214              | 49.497  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.345          | 142  | 134904              | 45.794  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.298          | 59   | 254900              | 272.960 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.110          | 96   | 121234              | 47.355  | ug/l   | 95       |
| 13) Acrolein                 | 3.981          | 56   | 67461               | 183.425 | ug/l   | 95       |
| 14) Allyl chloride           | 4.757          | 41   | 271802              | 49.692  | ug/l # | 92       |
| 15) Acrylonitrile            | 5.475          | 53   | 587278              | 272.811 | ug/l   | 99       |
| 16) Acetone                  | 4.222          | 43   | 545647              | 274.578 | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.451          | 76   | 232661              | 35.470  | ug/l   | 97       |
| 18) Methyl Acetate           | 4.775          | 43   | 286686              | 54.175  | ug/l   | 91       |
| 19) Methyl tert-butyl Ether  | 5.534          | 73   | 529878              | 55.111  | ug/l   | 99       |
| 20) Methylene Chloride       | 5.010          | 84   | 156901              | 50.907  | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.516          | 96   | 126542              | 45.440  | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.416          | 45   | 560787              | 54.996  | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.351          | 43   | 2557897             | 271.748 | ug/l # | 94       |
| 24) 1,1-Dichloroethane       | 6.304          | 63   | 279950              | 52.367  | ug/l   | 98       |
| 25) 2-Butanone               | 7.263          | 43   | 869012              | 275.578 | ug/l # | 89       |
| 26) 2,2-Dichloropropane      | 7.251          | 77   | 198549              | 44.681  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.245          | 96   | 169300              | 50.886  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.581          | 49   | 117022              | 52.930  | ug/l   | 85       |
| 29) Tetrahydrofuran          | 7.610          | 42   | 569363              | 273.419 | ug/l   | 88       |
| 30) Chloroform               | 7.745          | 83   | 288772              | 53.359  | ug/l   | 100      |
| 31) Cyclohexane              | 8.022          | 56   | 215131              | 43.993  | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 7.939          | 97   | 249477              | 52.531  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.151          | 75   | 189628              | 48.033  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.339          | 43   | 329620              | 52.200  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.133          | 117  | 202200              | 48.693  | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.392          | 83   | 213446              | 44.856  | ug/l   | 93       |
| 40) Benzene                  | 8.386          | 78   | 614883              | 49.559  | ug/l   | 99       |

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 Acq On : 27 Jun 2022 21:20  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Jun 28 06:39:52 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061722W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 18 06:22:45 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 06/28/2022  
 Supervised By : Mahesh Dadoda 06/30/2022

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.569  | 41   | 171073   | 57.130   | ug/l # | 83       |
| 42) 1,2-Dichloroethane        | 8.463  | 62   | 230463   | 52.298   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.492  | 43   | 498125   | 55.185   | ug/l   | 94       |
| 44) Trichloroethene           | 9.145  | 130  | 155674   | 49.512   | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 9.427  | 63   | 167592   | 52.845   | ug/l   | 100      |
| 46) Dibromomethane            | 9.510  | 93   | 112979   | 52.686   | ug/l   | 92       |
| 47) Bromodichloromethane      | 9.698  | 83   | 229318   | 53.809   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.492  | 41   | 223096   | 54.134   | ug/l   | 90       |
| 49) 1,4-Dioxane               | 9.504  | 88   | 97506    | 1051.530 | ug/l # | 92       |
| 51) 4-Methyl-2-Pentanone      | 10.269 | 43   | 1665895  | 283.019  | ug/l   | 91       |
| 52) Toluene                   | 10.439 | 92   | 389906   | 51.187   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.657 | 75   | 249615   | 54.463   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.127 | 75   | 260425   | 52.020   | ug/l # | 89       |
| 55) 1,1,2-Trichloroethane     | 10.839 | 97   | 171033   | 51.137   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.698 | 69   | 298395   | 55.662   | ug/l # | 87       |
| 57) 1,3-Dichloropropane       | 10.980 | 76   | 289892   | 52.244   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.980  | 63   | 707549   | 298.952  | ug/l   | 96       |
| 59) 2-Hexanone                | 11.021 | 43   | 1300022  | 285.555  | ug/l   | 90       |
| 60) Dibromochloromethane      | 11.174 | 129  | 178762   | 56.554   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.280 | 107  | 175491   | 53.224   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.916 | 164  | 142705   | 55.416   | ug/l   | 98       |
| 65) Chlorobenzene             | 11.710 | 112  | 421838   | 51.027   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.780 | 131  | 163685   | 52.021   | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.780 | 91   | 768436   | 52.803   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.892 | 106  | 578526   | 101.356  | ug/l   | 97       |
| 69) o-Xylene                  | 12.216 | 106  | 301088   | 52.790   | ug/l   | 100      |
| 70) Styrene                   | 12.233 | 104  | 492777   | 53.801   | ug/l   | 99       |
| 71) Bromoform                 | 12.398 | 173  | 133818   | 56.405   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.515 | 105  | 783923   | 52.152   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.327 | 43   | 424139   | 54.374   | ug/l # | 89       |
| 75) 1,1,2,2-Tetrachloroethane | 12.768 | 83   | 272935   | 50.418   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.821 | 75   | 233300m  | 49.525   | ug/l   |          |
| 77) Bromobenzene              | 12.798 | 156  | 181960   | 50.530   | ug/l   | 87       |
| 78) n-propylbenzene           | 12.857 | 91   | 886933   | 53.644   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.945 | 91   | 547100   | 51.100   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.998 | 105  | 647838   | 52.469   | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.563 | 75   | 89996    | 51.594   | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.039 | 91   | 534373   | 52.753   | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.262 | 119  | 585939   | 51.816   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.304 | 105  | 642603   | 52.253   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.439 | 105  | 803511   | 53.267   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.551 | 119  | 649459   | 53.178   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.551 | 146  | 325567   | 50.641   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.633 | 146  | 327632   | 50.351   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.880 | 91   | 543043   | 54.455   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.145 | 117  | 123613   | 53.689   | ug/l   | 87       |
| 91) 1,2-Dichlorobenzene       | 13.921 | 146  | 341458   | 50.929   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.539 | 75   | 70726    | 51.812   | ug/l   | 92       |
| 93) 1,2,4-Trichlorobenzene    | 15.192 | 180  | 183746   | 49.521   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.298 | 225  | 80038    | 49.570   | ug/l   | 97       |
| 95) Naphthalene               | 15.433 | 128  | 764625   | 50.941   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.621 | 180  | 192235   | 48.517   | ug/l   | 99       |

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Operator : JC\MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :John Carlone 06/28/2022  
Supervised By :Mahesh Dadoda 06/30/2022

Quant Time: Jun 28 06:39:52 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061722W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 18 06:22:45 2022  
Response via : Initial Calibration

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

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

