

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060319\  
 Data File : VN055973.D  
 Acq On : 3 Jun 2019 20:05  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 6/4/2019 11:25:04 AM

Quant Time: Jun 04 03:22:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052319W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 24 06:41:54 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene         | 7.66  | 168  | 303922   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.58  | 114  | 444446   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 11.41 | 117  | 401437   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.34 | 152  | 186056   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds   |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4     | 8.02  | 65   | 161073   | 51.32   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 102.64% |          |
| 35) Dibromofluoromethane      | 7.59  | 113  | 142490   | 50.71   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 101.42% |          |
| 50) Toluene-d8                | 10.09 | 98   | 546816   | 50.73   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 101.46% |          |
| 62) 4-Bromofluorobenzene      | 12.40 | 95   | 194425   | 52.61   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 105.22% |          |
| Target Compounds              |       |      |          |         |         |          |
|                               |       |      |          |         | Qvalue  |          |
| 2) Dichlorodifluoromethane    | 1.85  | 85   | 85684    | 41.890  | ug/l    | 99       |
| 3) Chloromethane              | 2.06  | 50   | 125809   | 43.900  | ug/l    | 100      |
| 4) Vinyl Chloride             | 2.18  | 62   | 134436   | 43.981  | ug/l    | 100      |
| 5) Bromomethane               | 2.52  | 94   | 106052m  | 55.458  | ug/l    |          |
| 6) Chloroethane               | 2.67  | 64   | 81388    | 44.225  | ug/l    | 100      |
| 7) Trichlorofluoromethane     | 3.00  | 101  | 185064   | 46.180  | ug/l    | 98       |
| 8) Diethyl Ether              | 3.40  | 74   | 85940    | 47.847  | ug/l    | 100      |
| 9) 1,1,2-Trichlorotrifluoroet | 3.74  | 101  | 120173   | 48.039  | ug/l    | 99       |
| 10) Methyl Iodide             | 3.93  | 142  | 191157   | 52.267  | ug/l    | 99       |
| 11) Tert butyl alcohol        | 4.82  | 59   | 152321m  | 253.998 | ug/l    |          |
| 12) 1,1-Dichloroethene        | 3.72  | 96   | 119105   | 46.080  | ug/l    | 97       |
| 13) Acrolein                  | 3.60  | 56   | 103782   | 241.687 | ug/l    | 98       |
| 14) Allyl chloride            | 4.31  | 41   | 204687   | 46.194  | ug/l    | 98       |
| 15) Acrylonitrile             | 4.99  | 53   | 368549   | 267.636 | ug/l    | 99       |
| 16) Acetone                   | 3.82  | 43   | 324291   | 235.046 | ug/l    | 100      |
| 17) Carbon Disulfide          | 4.03  | 76   | 241110   | 32.832  | ug/l    | 100      |
| 18) Methyl Acetate            | 4.32  | 43   | 162375   | 58.095  | ug/l    | 99       |
| 19) Methyl tert-butyl Ether   | 5.05  | 73   | 433371   | 50.271  | ug/l    | 100      |
| 20) Methylene Chloride        | 4.54  | 84   | 147644   | 49.413  | ug/l    | 97       |
| 21) trans-1,2-Dichloroethene  | 5.03  | 96   | 129371   | 46.588  | ug/l    | 98       |
| 22) Diisopropyl ether         | 5.95  | 45   | 441135   | 51.186  | ug/l    | 99       |
| 23) Vinyl Acetate             | 5.90  | 43   | 1813279  | 245.397 | ug/l    | 100      |
| 24) 1,1-Dichloroethane        | 5.84  | 63   | 245496   | 48.925  | ug/l    | 99       |
| 25) 2-Butanone                | 6.84  | 43   | 504994   | 262.083 | ug/l    | 99       |
| 26) 2,2-Dichloropropane       | 6.82  | 77   | 179032   | 41.226  | ug/l    | 98       |
| 27) cis-1,2-Dichloroethene    | 6.82  | 96   | 162675   | 50.212  | ug/l    | 98       |
| 28) Bromochloromethane        | 7.19  | 49   | 118346   | 49.537  | ug/l    | 100      |
| 29) Tetrahydrofuran           | 7.21  | 42   | 322863   | 264.595 | ug/l    | 100      |
| 30) Chloroform                | 7.37  | 83   | 253575   | 50.673  | ug/l    | 99       |
| 31) Cyclohexane               | 7.65  | 56   | 210499   | 44.682  | ug/l    | 100      |
| 32) 1,1,1-Trichloroethane     | 7.57  | 97   | 210892   | 47.226  | ug/l    | 99       |
| 36) 1,1-Dichloropropene       | 7.79  | 75   | 179447   | 46.331  | ug/l    | 100      |
| 37) Ethyl Acetate             | 6.93  | 43   | 195441   | 52.209  | ug/l    | 100      |
| 38) Carbon Tetrachloride      | 7.77  | 117  | 172197   | 42.682  | ug/l    | 98       |

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 Quant Title : SW846 8260  
 QLast Update : Fri May 24 06:41:54 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 213342   | 44.481   | ug/l   | 98       |
| 40) Benzene                    | 8.04  | 78   | 580320   | 49.715   | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.18  | 41   | 95304    | 50.394   | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 8.12  | 62   | 186771   | 48.966   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.17  | 43   | 313631   | 49.865   | ug/l # | 92       |
| 44) Trichloroethene            | 8.83  | 130  | 159965   | 49.156   | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 154309   | 50.738   | ug/l   | 99       |
| 46) Dibromomethane             | 9.21  | 93   | 100531   | 50.403   | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.40  | 83   | 188514   | 46.093   | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.20  | 41   | 153473   | 52.945   | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.20  | 88   | 66288    | 1100.440 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 993371   | 267.421  | ug/l   | 100      |
| 52) Toluene                    | 10.15 | 92   | 369978   | 50.396   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 203013   | 46.503   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 233017   | 48.182   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 153783   | 52.288   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 238739   | 52.524   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 250761   | 52.454   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.69  | 63   | 421539   | 242.676  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.75 | 43   | 692034   | 262.612  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.90 | 129  | 156943   | 45.807   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.00 | 107  | 158478   | 51.949   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.63 | 164  | 162939   | 48.124   | ug/l   | 96       |
| 65) Chlorobenzene              | 11.43 | 112  | 405530   | 50.462   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 148460   | 46.319   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.51 | 91   | 706974   | 49.057   | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.62 | 106  | 538644   | 98.866   | ug/l   | 99       |
| 69) o-Xylene                   | 11.95 | 106  | 268181   | 49.614   | ug/l   | 100      |
| 70) Styrene                    | 11.96 | 104  | 448718   | 51.262   | ug/l   | 100      |
| 71) Bromoform                  | 12.13 | 173  | 113436   | 41.493   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.25 | 105  | 706560   | 53.577   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.07 | 43   | 263119   | 52.331   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 221763   | 57.042   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 192712m  | 60.835   | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 191140   | 48.143   | ug/l   | 98       |
| 78) n-propylbenzene            | 12.59 | 91   | 758526   | 46.907   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 461590   | 53.154   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 583697   | 52.525   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 56361    | 40.758   | ug/l   | 92       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 453302   | 47.688   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 514341   | 53.633   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 577797   | 52.047   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.17 | 105  | 667564   | 53.463   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 604298   | 46.769   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 311294   | 49.517   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 297940   | 49.848   | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.61 | 91   | 468755   | 47.349   | ug/l   | 100      |
| 90) Hexachloroethane           | 13.87 | 117  | 94237    | 38.318   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 315135   | 50.244   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 36862    | 44.714   | ug/l   | 99       |

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Quant Title : SW846 8260  
QLast Update : Fri May 24 06:41:54 2019  
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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 162952   | 45.508 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 110144   | 49.895 | ug/l  | 99       |
| 95) Naphthalene            | 15.13 | 128  | 443792   | 51.563 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 174874   | 52.744 | ug/l  | 99       |

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

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