

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042319\  
 Data File : VN055197.D  
 Acq On : 23 Apr 2019 11:23  
 Operator : JC/SP  
 Sample : VN0423WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0423WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 4/24/2019 12:44:31 PM

Quant Time: Apr 23 15:39:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N042219W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 23 05:52:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 393357   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 660041   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 560005   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 215942   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 275279   | 51.70 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 103.40% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 219071   | 48.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 97.72%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 812113   | 48.88 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 97.76%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 254362   | 48.35 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 96.70%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85   | 116558   | 23.014  | ug/l   | 98     |
| 3) Chloromethane              | 2.06 | 50   | 135551   | 21.842  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.19 | 62   | 106690   | 21.455  | ug/l   | 96     |
| 5) Bromomethane               | 2.56 | 94   | 58745    | 20.370  | ug/l   | 98     |
| 6) Chloroethane               | 2.70 | 64   | 54231    | 20.691  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 3.02 | 101  | 145400   | 21.486  | ug/l   | 96     |
| 8) Diethyl Ether              | 3.41 | 74   | 52629    | 21.789  | ug/l   | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 3.76 | 101  | 85841    | 20.328  | ug/l   | 98     |
| 10) Methyl Iodide             | 3.96 | 142  | 125345   | 21.167  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.78 | 59   | 33011    | 106.202 | ug/l # | 87     |
| 12) 1,1-Dichloroethene        | 3.74 | 96   | 85914    | 21.229  | ug/l   | 95     |
| 13) Acrolein                  | 3.61 | 56   | 40799    | 93.739  | ug/l   | 98     |
| 14) Allyl chloride            | 4.33 | 41   | 168871   | 21.108  | ug/l   | 99     |
| 15) Acrylonitrile             | 4.99 | 53   | 184629   | 108.306 | ug/l   | 99     |
| 16) Acetone                   | 3.82 | 43   | 166499   | 94.598  | ug/l   | 97     |
| 17) Carbon Disulfide          | 4.06 | 76   | 234710   | 20.745  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.33 | 43   | 89947    | 23.178  | ug/l   | 96     |
| 19) Methyl tert-butyl Ether   | 5.05 | 73   | 241410   | 21.575  | ug/l   | 96     |
| 20) Methylene Chloride        | 4.55 | 84   | 101258   | 20.012  | ug/l   | 94     |
| 21) trans-1,2-Dichloroethene  | 5.04 | 96   | 89506    | 21.091  | ug/l   | 97     |
| 22) Diisopropyl ether         | 5.95 | 45   | 338001   | 21.195  | ug/l   | 96     |
| 23) Vinyl Acetate             | 5.90 | 43   | 1192150  | 111.244 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 5.85 | 63   | 181527   | 21.162  | ug/l   | 100    |
| 25) 2-Butanone                | 6.84 | 43   | 229879   | 101.165 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 6.82 | 77   | 119733   | 20.627  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96   | 107286   | 21.931  | ug/l   | 96     |
| 28) Bromochloromethane        | 7.19 | 49   | 91537    | 20.935  | ug/l   | 99     |
| 29) Tetrahydrofuran           | 7.21 | 42   | 155144   | 111.045 | ug/l   | 97     |
| 30) Chloroform                | 7.37 | 83   | 169317   | 20.751  | ug/l   | 97     |
| 31) Cyclohexane               | 7.65 | 56   | 175225   | 21.066  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97   | 136753   | 20.862  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.79 | 75   | 127553   | 20.821  | ug/l   | 99     |
| 37) Ethyl Acetate             | 6.93 | 43   | 98961    | 20.016  | ug/l # | 95     |
| 38) Carbon Tetrachloride      | 7.77 | 117  | 117134   | 20.418  | ug/l   | 99     |

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 Sample : VN0423WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VN0423WBSD01

Manual Integrations  
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MMDadoda  
 4/24/2019 12:44:31 PM

Quant Time: Apr 23 15:39:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N042219W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 23 05:52:53 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 139499   | 19.087  | ug/l   | 99       |
| 40) Benzene                    | 8.04  | 78   | 389292   | 20.585  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.18  | 41   | 57741    | 22.276  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 8.12  | 62   | 134971   | 20.458  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.16  | 43   | 166165   | 20.755  | ug/l # | 88       |
| 44) Trichloroethene            | 8.84  | 130  | 95946    | 20.073  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 106740   | 19.996  | ug/l   | 99       |
| 46) Dibromomethane             | 9.21  | 93   | 62691    | 20.515  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.40  | 83   | 124477   | 20.348  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.20  | 41   | 76609    | 19.727  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.20  | 88   | 19262    | 429.493 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 9.98  | 43   | 465584   | 101.062 | ug/l   | 99       |
| 52) Toluene                    | 10.16 | 92   | 224969   | 20.292  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 114576   | 20.409  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 143489   | 20.596  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 83353    | 20.393  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 104758   | 20.574  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 144920   | 20.379  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.69  | 63   | 164649   | 91.417  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.75 | 43   | 294530   | 101.215 | ug/l   | 100      |
| 60) Dibromochloromethane       | 10.90 | 129  | 86074    | 20.446  | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 11.00 | 107  | 79647    | 20.726  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.63 | 164  | 90278    | 19.761  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.43 | 112  | 224962   | 19.681  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 84803    | 20.018  | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.51 | 91   | 413401   | 20.304  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.62 | 106  | 298281   | 40.845  | ug/l   | 100      |
| 69) o-Xylene                   | 11.95 | 106  | 147815   | 20.396  | ug/l   | 99       |
| 70) Styrene                    | 11.96 | 104  | 240111   | 21.374  | ug/l   | 99       |
| 71) Bromoform                  | 12.13 | 173  | 51271    | 20.281  | ug/l # | 96       |
| 73) Isopropylbenzene           | 12.25 | 105  | 397131   | 21.607  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.07 | 43   | 114636   | 20.590  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 103313   | 22.166  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 72728m   | 16.601  | ug/l   |          |
| 77) Bromobenzene               | 12.52 | 156  | 92648    | 19.434  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.59 | 91   | 430451   | 19.877  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 267062   | 19.530  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 321873   | 19.911  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 22365    | 19.353  | ug/l   | 100      |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 250624   | 19.920  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.99 | 119  | 273606   | 21.261  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 303727   | 19.910  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.17 | 105  | 357343   | 19.539  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 296671   | 19.690  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 147962   | 20.219  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 140730   | 19.752  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.61 | 91   | 219890   | 19.689  | ug/l   | 96       |
| 90) Hexachloroethane           | 13.87 | 117  | 50484    | 18.893  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 148002   | 19.690  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 12817    | 19.546  | ug/l   | 98       |

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Sample : VN0423WBSD01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0423WBSD01

Manual Integrations  
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MMDadoda  
4/24/2019 12:44:31 PM

Quant Time: Apr 23 15:39:17 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N042219W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 23 05:52:53 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 49456    | 17.459 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 50263    | 21.656 | ug/l  | 98       |
| 95) Naphthalene            | 15.13 | 128  | 101226   | 16.984 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 51914    | 17.885 | ug/l  | 99       |

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

