

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062920\  
 Data File : VN062184.D  
 Acq On : 29 Jun 2020 13:32  
 Operator : JC/MD  
 Sample : VN0629WBS01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0629WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 6/30/2020 10:43:25 AM

Quant Time: Jun 30 04:54:20 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N062420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 24 15:33:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 243633   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 431554   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 398084   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 180618   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 171560   | 50.18 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.36% |      |
| 35) Dibromofluoromethane  | 7.54   | 113 | 138185   | 49.91 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.82%  |      |
| 50) Toluene-d8            | 10.06  | 98  | 546880   | 49.41 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.82%  |      |
| 62) 4-Bromofluorobenzene  | 12.38  | 95  | 181678   | 48.59 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.18%  |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 50213  | 18.234  | ug/l   | 97     |
| 3) Chloromethane              | 2.03 | 50  | 63932  | 18.887  | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.16 | 62  | 75413  | 17.389  | ug/l   | 98     |
| 5) Bromomethane               | 2.53 | 94  | 51880  | 18.510  | ug/l   | 99     |
| 6) Chloroethane               | 2.67 | 64  | 52283  | 17.648  | ug/l   | 100    |
| 7) Trichlorofluoromethane     | 2.98 | 101 | 94196  | 17.627  | ug/l   | 100    |
| 8) Diethyl Ether              | 3.37 | 74  | 36473  | 19.546  | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101 | 54242  | 19.384  | ug/l   | 99     |
| 10) Methyl Iodide             | 3.90 | 142 | 63287  | 20.081  | ug/l   | 100    |
| 11) Tert butyl alcohol        | 4.73 | 59  | 48766  | 99.342  | ug/l # | 88     |
| 12) 1,1-Dichloroethene        | 3.69 | 96  | 54719  | 19.560  | ug/l   | 98     |
| 13) Acrolein                  | 3.56 | 56  | 37961  | 78.985  | ug/l   | 95     |
| 14) Allyl chloride            | 4.27 | 41  | 77197  | 20.268  | ug/l   | 98     |
| 15) Acrylonitrile             | 4.93 | 53  | 134869 | 100.822 | ug/l   | 99     |
| 16) Acetone                   | 3.77 | 43  | 119393 | 108.967 | ug/l   | 100    |
| 17) Carbon Disulfide          | 4.01 | 76  | 147761 | 18.472  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.28 | 43  | 56101  | 20.641  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 4.99 | 73  | 178769 | 19.998  | ug/l   | 100    |
| 20) Methylene Chloride        | 4.50 | 84  | 64409  | 20.393  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 58460  | 18.344  | ug/l   | 92     |
| 22) Diisopropyl ether         | 5.90 | 45  | 173428 | 19.998  | ug/l   | 96     |
| 23) Vinyl Acetate             | 5.84 | 43  | 717153 | 101.288 | ug/l   | 97     |
| 24) 1,1-Dichloroethane        | 5.80 | 63  | 108584 | 19.444  | ug/l   | 98     |
| 25) 2-Butanone                | 6.79 | 43  | 173290 | 103.695 | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 6.78 | 77  | 90958  | 19.546  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 69246  | 19.310  | ug/l   | 98     |
| 28) Bromochloromethane        | 7.15 | 49  | 45276  | 18.686  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.17 | 42  | 110489 | 100.932 | ug/l   | 99     |
| 30) Chloroform                | 7.33 | 83  | 108439 | 19.086  | ug/l   | 97     |
| 31) Cyclohexane               | 7.61 | 56  | 91675  | 19.408  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 91114  | 19.016  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 81998  | 18.903  | ug/l   | 99     |
| 37) Ethyl Acetate             | 6.88 | 43  | 75005  | 20.882  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 74937  | 18.324  | ug/l   | 98     |

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 ClientSampleID :  
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 6/30/2020 10:43:25 AM

Quant Time: Jun 30 04:54:20 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N062420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 24 15:33:00 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.04  | 83   | 95898    | 20.177  | ug/l   | 98       |
| 40) Benzene                    | 8.00  | 78   | 249743   | 18.889  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.13  | 41   | 31092m   | 18.671  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 86425    | 19.347  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.12  | 43   | 118595   | 20.254  | ug/l   | 99       |
| 44) Trichloroethene            | 8.80  | 130  | 62999    | 18.890  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 65324    | 20.027  | ug/l   | 99       |
| 46) Dibromomethane             | 9.17  | 93   | 41663    | 18.839  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.37  | 83   | 86335    | 19.335  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.17  | 41   | 50699    | 19.311  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 22383    | 384.447 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 355145   | 103.812 | ug/l   | 100      |
| 52) Toluene                    | 10.12 | 92   | 157784   | 19.559  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 92709    | 18.871  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 103941   | 19.873  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 62925    | 19.843  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 83696    | 19.777  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 107065   | 19.615  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 159671   | 99.014  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.72 | 43   | 252470   | 102.201 | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.87 | 129  | 63059    | 18.783  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 62003    | 19.029  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.60 | 164  | 48570    | 17.861  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.41 | 112  | 166552   | 19.052  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 57650    | 19.071  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.48 | 91   | 289600   | 19.615  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.59 | 106  | 221293   | 38.752  | ug/l   | 98       |
| 69) o-Xylene                   | 11.92 | 106  | 104929   | 19.475  | ug/l   | 98       |
| 70) Styrene                    | 11.94 | 104  | 173561   | 19.315  | ug/l   | 99       |
| 71) Bromoform                  | 12.10 | 173  | 40021    | 18.621  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.22 | 105  | 279145   | 19.966  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.05 | 43   | 94478    | 20.473  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 91090    | 19.578  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 81751m   | 19.227  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 64984    | 18.721  | ug/l   | 95       |
| 78) n-propylbenzene            | 12.57 | 91   | 322068   | 20.139  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 188554   | 19.502  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 228530   | 20.163  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 28525    | 19.592  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 193759   | 19.380  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 195503   | 20.156  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 228304   | 20.169  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.15 | 105  | 269958   | 21.063  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 234265   | 20.862  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 115326   | 18.921  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 116058   | 18.472  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.59 | 91   | 188646   | 20.207  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.85 | 117  | 43402    | 19.700  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 113155   | 19.144  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.25 | 75   | 14358    | 19.264  | ug/l   | 97       |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 50123    | 19.412 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 24109    | 21.498 | ug/l  | 100      |
| 95) Naphthalene            | 15.10 | 128  | 137945   | 18.738 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 49652    | 18.806 | ug/l  | 98       |

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

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