

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042121\  
 Data File : VN066704.D  
 Acq On : 21 Apr 2021 18:22  
 Operator : JC/MD  
 Sample : VN0421WBSD01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0421WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 4/22/2021 5:29:26 PM

Quant Time: Apr 22 08:30:51 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042121W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 22 08:25:55 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                        |                |      |                    |        |        |          |
| Internal Standards           |                |      |                    |        |        |          |
| 1) Pentafluorobenzene        | 7.588          | 168  | 268134             | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.519          | 114  | 432102             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.348         | 117  | 409588             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.288         | 152  | 180253             | 50.00  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 7.953          | 65   | 166696             | 50.89  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 101.78% |        |        |          |
| 35) Dibromofluoromethane     | 7.513          | 113  | 135806             | 50.19  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 100.38% |        |        |          |
| 50) Toluene-d8               | 10.029         | 98   | 538102             | 50.99  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 101.98% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.346         | 95   | 185943             | 51.45  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 102.90% |        |        |          |
| Target Compounds             |                |      |                    |        |        |          |
|                              |                |      |                    |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.835          | 85   | 58237              | 19.26  | ug/l   | 99       |
| 3) Chloromethane             | 2.034          | 50   | 82516              | 19.11  | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.163          | 62   | 76691              | 19.97  | ug/l   | 99       |
| 5) Bromomethane              | 2.514          | 94   | 45714              | 21.07  | ug/l   | 99       |
| 6) Chloroethane              | 2.659          | 64   | 43812              | 19.43  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 2.970          | 101  | 80439              | 19.49  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.359          | 74   | 33459              | 19.06  | ug/l   | 83       |
| 9) 1,1,2-Trichlorotrifluo... | 3.694          | 101  | 48341              | 18.66  | ug/l   | 98       |
| 10) Methyl Iodide            | 3.885          | 142  | 77811              | 19.12  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 4.708          | 59   | 48702              | 117.34 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 3.673          | 96   | 50481              | 19.31  | ug/l   | 96       |
| 13) Acrolein                 | 3.547          | 56   | 41038              | 89.48  | ug/l   | 99       |
| 14) Allyl chloride           | 4.247          | 41   | 96760              | 19.32  | ug/l   | 94       |
| 15) Acrylonitrile            | 4.896          | 53   | 147373             | 104.16 | ug/l   | 100      |
| 16) Acetone                  | 3.753          | 43   | 114717             | 93.56  | ug/l   | 95       |
| 17) Carbon Disulfide         | 3.984          | 76   | 156904             | 18.69  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.252          | 43   | 67590              | 19.88  | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 4.957          | 73   | 168756             | 19.77  | ug/l   | 97       |
| 20) Methylene Chloride       | 4.472          | 84   | 72671              | 19.93  | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 4.955          | 96   | 55392              | 19.30  | ug/l   | 91       |
| 22) Diisopropyl ether        | 5.864          | 45   | 199328             | 19.63  | ug/l   | 93       |
| 23) Vinyl Acetate            | 5.805          | 43   | 816548             | 99.72  | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 5.759          | 63   | 107745             | 19.11  | ug/l   | 99       |
| 25) 2-Butanone               | 6.749          | 43   | 183589             | 104.37 | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 6.735          | 77   | 86835              | 18.75  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.744          | 96   | 63845              | 19.18  | ug/l   | 94       |
| 28) Bromochloromethane       | 7.111          | 49   | 49282              | 18.58  | ug/l   | 87       |
| 29) Tetrahydrofuran          | 7.130          | 42   | 133125             | 109.84 | ug/l   | 92       |
| 30) Chloroform               | 7.291          | 83   | 103073             | 19.50  | ug/l   | 100      |
| 31) Cyclohexane              | 7.578          | 56   | 97934              | 18.35  | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 7.492          | 97   | 84957              | 19.24  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 7.717          | 75   | 74803              | 18.62  | ug/l   | 99       |
| 37) Ethyl Acetate            | 6.845          | 43   | 81636              | 19.34  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.698          | 117  | 73073              | 19.11  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.015          | 83   | 89861              | 18.87  | ug/l   | 94       |
| 40) Benzene                  | 7.969          | 78   | 248060             | 19.18  | ug/l   | 99       |

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Quant Time: Apr 22 08:30:51 2021  
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 Quant Title : SW846 8260  
 QLast Update : Thu Apr 22 08:25:55 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.087  | 41   | 33147    | 17.67  | ug/l # | 100      |
| 42) 1,2-Dichloroethane        | 8.052  | 62   | 78699    | 19.06  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.093  | 43   | 136822   | 20.31  | ug/l   | 97       |
| 44) Trichloroethene           | 8.771  | 130  | 59126    | 19.22  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.050  | 63   | 67972    | 19.34  | ug/l   | 99       |
| 46) Dibromomethane            | 9.141  | 93   | 40731    | 19.85  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.337  | 83   | 82867    | 19.21  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.136  | 41   | 60599    | 20.50  | ug/l   | 92       |
| 49) 1,4-Dioxane               | 9.136  | 88   | 19793    | 554.06 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 9.922  | 43   | 397612   | 105.48 | ug/l   | 97       |
| 52) Toluene                   | 10.093 | 92   | 152450   | 20.08  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.324 | 75   | 89491    | 19.65  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.777  | 75   | 100489   | 19.37  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.501 | 97   | 61178    | 20.35  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.370 | 69   | 82776    | 19.42  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.646 | 76   | 101990   | 20.16  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.635  | 63   | 59324    | 89.22  | ug/l   | 94       |
| 59) 2-Hexanone                | 10.694 | 43   | 251664   | 99.67  | ug/l   | 98       |
| 60) Dibromochloromethane      | 10.842 | 129  | 64626    | 20.22  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 10.946 | 107  | 61128    | 20.69  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.571 | 164  | 52978    | 18.32  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.375 | 112  | 161019   | 19.33  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.450 | 131  | 60213    | 19.92  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.453 | 91   | 278920   | 19.48  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.566 | 106  | 214789   | 40.25  | ug/l   | 100      |
| 69) o-Xylene                  | 11.890 | 106  | 103184   | 19.63  | ug/l   | 98       |
| 70) Styrene                   | 11.909 | 104  | 162224   | 18.41  | ug/l   | 99       |
| 71) Bromoform                 | 12.073 | 173  | 46372    | 20.23  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.193 | 105  | 271568   | 21.20  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.035 | 43   | 20826    | 6.83   | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.448 | 83   | 94445    | 21.84  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.499 | 75   | 84341m   | 21.87  | ug/l   |          |
| 77) Bromobenzene              | 12.470 | 156  | 70362    | 21.23  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.534 | 91   | 301962   | 21.15  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.617 | 91   | 189700   | 20.39  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.676 | 105  | 227205   | 20.87  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.250 | 75   | 21338    | 20.57  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.719 | 91   | 184694   | 21.03  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 12.936 | 119  | 191255   | 19.72  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 12.984 | 105  | 212743   | 20.43  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.116 | 105  | 249628   | 20.48  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.234 | 119  | 209681   | 20.68  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.229 | 146  | 112904   | 20.23  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.306 | 146  | 117895   | 19.66  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.561 | 91   | 164530   | 18.22  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.816 | 117  | 44567    | 19.65  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene       | 13.599 | 146  | 115414   | 20.26  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.221 | 75   | 14471    | 18.77  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 14.854 | 180  | 62253    | 19.54  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 14.948 | 225  | 33793    | 19.21  | ug/l   | 98       |
| 95) Naphthalene               | 15.071 | 128  | 170213   | 21.59  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.251 | 180  | 63554    | 20.71  | ug/l   | 98       |

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QLast Update : Thu Apr 22 08:25:55 2021  
Response via : Initial Calibration

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

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

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