

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032019\  
 Data File : VN054474.D  
 Acq On : 20 Mar 2019 20:07  
 Operator : JC/SP  
 Sample : VN0320MBSD01  
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0320MBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 3/22/2019 3:48:29 PM

Quant Time: Mar 22 05:26:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N032019W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 22 02:09:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 532065   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 890464   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 764057   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 338756   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 354695   | 53.60 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 107.20% |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 284006   | 49.51 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.02%  |      |
| 50) Toluene-d8              | 10.09  | 98  | 1071960  | 49.70 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.40%  |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 360241   | 49.09 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.18%  |      |

| Target Compounds              |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 111785  | 21.977  | ug/l   | 99     |
| 3) Chloromethane              | 2.06 | 50  | 148771  | 21.497  | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.19 | 62  | 142617  | 20.526  | ug/l   | 100    |
| 5) Bromomethane               | 2.58 | 94  | 85783   | 19.093  | ug/l   | 98     |
| 6) Chloroethane               | 2.71 | 64  | 84411   | 20.255  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 3.03 | 101 | 174482  | 20.678  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.41 | 74  | 66791   | 20.582  | ug/l   | 79     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.75 | 101 | 94877   | 19.132  | ug/l   | 96     |
| 10) Methyl Iodide             | 3.95 | 142 | 143952  | 19.734  | ug/l   | 93     |
| 11) Tert butyl alcohol        | 4.82 | 59  | 39994   | 99.818  | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 3.73 | 96  | 99726   | 19.432  | ug/l # | 83     |
| 13) Acrolein                  | 3.61 | 56  | 59293   | 107.234 | ug/l   | 99     |
| 14) Allyl chloride            | 4.32 | 41  | 201957  | 20.898  | ug/l # | 90     |
| 15) Acrylonitrile             | 5.00 | 53  | 220536  | 110.528 | ug/l   | 99     |
| 16) Acetone                   | 3.82 | 43  | 160120  | 80.474  | ug/l   | 88     |
| 17) Carbon Disulfide          | 4.04 | 76  | 248759  | 18.091  | ug/l   | 97     |
| 18) Methyl Acetate            | 4.33 | 43  | 98676   | 22.250  | ug/l   | 90     |
| 19) Methyl tert-butyl Ether   | 5.06 | 73  | 328367  | 21.924  | ug/l   | 94     |
| 20) Methylene Chloride        | 4.54 | 84  | 125010  | 21.314  | ug/l # | 86     |
| 21) trans-1,2-Dichloroethene  | 5.04 | 96  | 114888  | 21.924  | ug/l   | 86     |
| 22) Diisopropyl ether         | 5.96 | 45  | 427669  | 22.436  | ug/l # | 94     |
| 23) Vinyl Acetate             | 5.90 | 43  | 1460201 | 108.463 | ug/l # | 93     |
| 24) 1,1-Dichloroethane        | 5.85 | 63  | 225847  | 22.005  | ug/l   | 98     |
| 25) 2-Butanone                | 6.85 | 43  | 267522  | 104.959 | ug/l # | 89     |
| 26) 2,2-Dichloropropane       | 6.82 | 77  | 126930  | 17.349  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96  | 134260  | 21.480  | ug/l   | 91     |
| 28) Bromochloromethane        | 7.20 | 49  | 106618  | 21.105  | ug/l # | 77     |
| 29) Tetrahydrofuran           | 7.22 | 42  | 183749  | 111.092 | ug/l   | 87     |
| 30) Chloroform                | 7.37 | 83  | 214983  | 21.464  | ug/l   | 98     |
| 31) Cyclohexane               | 7.65 | 56  | 224514  | 21.781  | ug/l   | 91     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97  | 174697  | 21.141  | ug/l   | 96     |
| 36) 1,1-Dichloropropene       | 7.79 | 75  | 167451  | 20.112  | ug/l   | 96     |
| 37) Ethyl Acetate             | 6.94 | 43  | 120384  | 20.329  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 7.77 | 117 | 150409  | 18.590  | ug/l   | 99     |

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 Sample : VN0320MBSD01  
 Misc : 5.00uL/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VN0320MBSD01

Manual Integrations  
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Quant Time: Mar 22 05:26:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N032019W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 22 02:09:07 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 185413   | 19.468  | ug/l   | 91       |
| 40) Benzene                    | 8.04  | 78   | 494269   | 20.760  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.17  | 41   | 70061    | 19.400  | ug/l   | 90       |
| 42) 1,2-Dichloroethane         | 8.13  | 62   | 174963   | 20.179  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.17  | 43   | 202286   | 20.227  | ug/l # | 94       |
| 44) Trichloroethene            | 8.83  | 130  | 133913   | 20.231  | ug/l   | 90       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 134369   | 21.018  | ug/l   | 100      |
| 46) Dibromomethane             | 9.21  | 93   | 78952    | 20.701  | ug/l   | 89       |
| 47) Bromodichloromethane       | 9.40  | 83   | 154104   | 19.469  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.20  | 41   | 108296   | 19.951  | ug/l   | 87       |
| 49) 1,4-Dioxane                | 9.21  | 88   | 23104    | 380.733 | ug/l # | 84       |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 584450   | 105.448 | ug/l   | 93       |
| 52) Toluene                    | 10.16 | 92   | 294631   | 20.121  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 136450   | 17.844  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 175542   | 19.342  | ug/l # | 91       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 109565   | 20.815  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 142833   | 20.217  | ug/l # | 86       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 193507   | 21.148  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.70  | 63   | 277675   | 95.447  | ug/l   | 92       |
| 59) 2-Hexanone                 | 10.75 | 43   | 360446   | 99.562  | ug/l   | 92       |
| 60) Dibromochloromethane       | 10.90 | 129  | 104332   | 18.627  | ug/l   | 96       |
| 61) 1,2-Dibromoethane          | 11.01 | 107  | 105791   | 20.330  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.63 | 164  | 133607   | 21.082  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.43 | 112  | 317597   | 20.437  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 112451   | 20.160  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.51 | 91   | 571196   | 20.808  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.62 | 106  | 417032   | 40.109  | ug/l   | 96       |
| 69) o-Xylene                   | 11.95 | 106  | 209819   | 20.663  | ug/l   | 100      |
| 70) Styrene                    | 11.96 | 104  | 343860   | 20.853  | ug/l   | 98       |
| 71) Bromoform                  | 12.13 | 173  | 58443    | 16.743  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.25 | 105  | 559529   | 20.497  | ug/l   | 97       |
| 74) N-amyl acetate             | 12.07 | 43   | 166690   | 21.237  | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 124213   | 19.933  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 115715m  | 21.526  | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 194274   | 28.695  | ug/l   | 74       |
| 78) n-propylbenzene            | 12.59 | 91   | 591695   | 19.989  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 358302   | 19.411  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 475312   | 21.245  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 19523    | 14.898  | ug/l # | 66       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 358678   | 20.046  | ug/l   | 96       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 392983   | 20.180  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 446286   | 20.330  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.17 | 105  | 488841   | 20.136  | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 451080   | 20.769  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 222015   | 19.789  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 213261   | 19.537  | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.61 | 91   | 348393   | 20.514  | ug/l   | 98       |
| 90) Hexachloroethane           | 13.87 | 117  | 55009    | 16.317  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 221584   | 20.391  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 18289    | 20.010  | ug/l   | 85       |

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Sample : VN0320MBS01  
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ALS Vial : 21 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
VN0320MBS01

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Quant Title : SW846 8260  
QLast Update : Fri Mar 22 02:09:07 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 118622   | 21.897 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 66781    | 20.478 | ug/l  | 99       |
| 95) Naphthalene            | 15.13 | 128  | 269330   | 22.289 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 118083   | 21.901 | ug/l  | 97       |

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

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