

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN113020\  
 Data File : VN064866.D  
 Acq On : 30 Nov 2020 12:32  
 Operator : JC/MD  
 Sample : VN1130MBSD01  
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VN1130MBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 12/1/2020 9:35:05 AM

Quant Time: Dec 01 01:50:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112320W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 23 13:54:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 202258   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 313714   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 284692   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 141705   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65    | 111445   | 47.40    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 61 - 141 | Recovery | =    | 94.80%  |
| 35) Dibromofluoromethane  | 7.55   | 113   | 96453    | 51.38    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 69 - 133 | Recovery | =    | 102.76% |
| 50) Toluene-d8            | 10.06  | 98    | 369512   | 48.18    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 65 - 126 | Recovery | =    | 96.36%  |
| 62) 4-Bromofluorobenzene  | 12.38  | 95    | 132514   | 48.28    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 58 - 135 | Recovery | =    | 96.56%  |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 27408  | 15.636 | ug/l   | 98     |
| 3) Chloromethane              | 2.04 | 50  | 35879  | 15.751 | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.17 | 62  | 38139  | 16.059 | ug/l   | 100    |
| 5) Bromomethane               | 2.53 | 94  | 24596  | 15.786 | ug/l   | 99     |
| 6) Chloroethane               | 2.67 | 64  | 24475  | 16.662 | ug/l   | 99     |
| 7) Trichlorofluoromethane     | 2.99 | 101 | 56698  | 17.271 | ug/l   | 99     |
| 8) Diethyl Ether              | 3.37 | 74  | 22716  | 17.530 | ug/l   | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.71 | 101 | 34627  | 17.583 | ug/l   | 98     |
| 10) Methyl Iodide             | 3.91 | 142 | 38303  | 14.995 | ug/l   | 97     |
| 11) Tert butyl alcohol        | 4.75 | 59  | 29655  | 80.869 | ug/l # | 91     |
| 12) 1,1-Dichloroethene        | 3.69 | 96  | 33327  | 16.992 | ug/l   | 97     |
| 13) Acrolein                  | 3.57 | 56  | 16721  | 74.651 | ug/l   | 100    |
| 14) Allyl chloride            | 4.27 | 41  | 55159  | 17.051 | ug/l   | 98     |
| 15) Acrylonitrile             | 4.93 | 53  | 89489  | 88.338 | ug/l   | 99     |
| 16) Acetone                   | 3.78 | 43  | 67432  | 87.238 | ug/l   | 95     |
| 17) Carbon Disulfide          | 4.00 | 76  | 84804  | 16.750 | ug/l   | 99     |
| 18) Methyl Acetate            | 4.28 | 43  | 40422  | 17.393 | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 4.99 | 73  | 112095 | 17.820 | ug/l   | 99     |
| 20) Methylene Chloride        | 4.50 | 84  | 42107  | 17.384 | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 35952  | 16.507 | ug/l   | 98     |
| 22) Diisopropyl ether         | 5.91 | 45  | 120201 | 18.564 | ug/l   | 98     |
| 23) Vinyl Acetate             | 5.85 | 43  | 467071 | 90.208 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 5.79 | 63  | 67850  | 17.534 | ug/l   | 99     |
| 25) 2-Butanone                | 6.79 | 43  | 111279 | 88.809 | ug/l   | 94     |
| 26) 2,2-Dichloropropane       | 6.78 | 77  | 55595  | 16.565 | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 43622  | 17.799 | ug/l   | 97     |
| 28) Bromochloromethane        | 7.15 | 49  | 33020  | 18.653 | ug/l   | 100    |
| 29) Tetrahydrofuran           | 7.17 | 42  | 74607  | 86.256 | ug/l   | 99     |
| 30) Chloroform                | 7.33 | 83  | 69647  | 17.453 | ug/l   | 99     |
| 31) Cyclohexane               | 7.61 | 56  | 54367  | 16.589 | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 58646  | 17.111 | ug/l   | 100    |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 49735  | 17.104 | ug/l   | 99     |
| 37) Ethyl Acetate             | 6.88 | 43  | 47906  | 17.103 | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 53794  | 17.780 | ug/l   | 97     |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 53933    | 17.229  | ug/l   | 100      |
| 40) Benzene                    | 8.00  | 78   | 156909   | 17.609  | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.12  | 41   | 23577    | 18.242  | ug/l   | 90       |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 53745    | 17.880  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.13  | 43   | 77361    | 17.164  | ug/l   | 99       |
| 44) Trichloroethene            | 8.80  | 130  | 46800    | 17.801  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 42442    | 18.393  | ug/l   | 98       |
| 46) Dibromomethane             | 9.17  | 93   | 27735    | 17.991  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.37  | 83   | 55400    | 17.860  | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.16  | 41   | 37344    | 17.340  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 14172    | 348.163 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 241619   | 89.295  | ug/l   | 100      |
| 52) Toluene                    | 10.12 | 92   | 97008    | 17.678  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 61023    | 17.663  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 66552    | 17.972  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 40766    | 18.066  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 55073    | 17.686  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 68502    | 18.403  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 156857   | 91.576  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.72 | 43   | 171797   | 88.220  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.87 | 129  | 44837    | 17.875  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 41049    | 17.905  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.60 | 164  | 54517    | 19.683  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.41 | 112  | 109186   | 17.859  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 41618    | 18.523  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.48 | 91   | 180532   | 17.676  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.59 | 106  | 140396   | 36.308  | ug/l   | 100      |
| 69) o-Xylene                   | 11.92 | 106  | 67017    | 18.264  | ug/l   | 100      |
| 70) Styrene                    | 11.94 | 104  | 114746   | 18.524  | ug/l   | 99       |
| 71) Bromoform                  | 12.10 | 173  | 30805    | 17.166  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.22 | 105  | 177663   | 18.025  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.05 | 43   | 64891    | 16.729  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 48315    | 16.724  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 48646m   | 15.940  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 47218    | 17.769  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.57 | 91   | 201346   | 17.932  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 121442   | 17.497  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 152659   | 18.633  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 17936    | 16.108  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 127826   | 17.570  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 126899   | 18.479  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 152169   | 18.370  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.14 | 105  | 166834   | 18.298  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 157202   | 18.938  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 82352    | 17.443  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 84866    | 16.997  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.59 | 91   | 130597   | 17.915  | ug/l   | 98       |
| 90) Hexachloroethane           | 13.85 | 117  | 25384    | 17.603  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 83784    | 18.074  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 10220    | 15.722  | ug/l   | 94       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 47555    | 16.583 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 24042    | 18.851 | ug/l  | 99       |
| 95) Naphthalene            | 15.10 | 128  | 132915   | 15.471 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 46559    | 18.001 | ug/l  | 96       |

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

