

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060120\  
 Data File : VN061584.D  
 Acq On : 1 Jun 2020 9:51  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 6/2/2020 4:01:35 PM

Quant Time: Jun 02 03:59:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052820W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 29 02:14:10 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|---------|--------|----------|
| 1) Pentafluorobenzene         | 7.62  | 168  | 392298   | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.54  | 114  | 625374   | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.38 | 117  | 599288   | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.32 | 152  | 307973   | 50.00   | ug/l   | 0.00     |
| System Monitoring Compounds   |       |      |          |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 7.98  | 65   | 193784   | 41.46   | ug/l   | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 82.92% |          |
| 35) Dibromofluoromethane      | 7.54  | 113  | 139227   | 43.89   | ug/l   | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 87.78% |          |
| 50) Toluene-d8                | 10.06 | 98   | 654691   | 44.53   | ug/l   | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 89.06% |          |
| 62) 4-Bromofluorobenzene      | 12.37 | 95   | 239839   | 44.72   | ug/l   | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 89.44% |          |
| Target Compounds              |       |      |          |         |        |          |
|                               |       |      |          |         | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.83  | 85   | 200171   | 44.327  | ug/l   | 100      |
| 3) Chloromethane              | 2.03  | 50   | 199032   | 41.597  | ug/l   | 100      |
| 4) Vinyl Chloride             | 2.16  | 62   | 279465   | 42.622  | ug/l   | 99       |
| 5) Bromomethane               | 2.53  | 94   | 166770   | 44.325  | ug/l   | 96       |
| 6) Chloroethane               | 2.67  | 64   | 176330   | 41.780  | ug/l   | 99       |
| 7) Trichlorofluoromethane     | 2.98  | 101  | 349808   | 41.371  | ug/l   | 100      |
| 8) Diethyl Ether              | 3.37  | 74   | 104723   | 40.504  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluoroet | 3.71  | 101  | 168578   | 44.929  | ug/l   | 99       |
| 10) Methyl Iodide             | 3.91  | 142  | 205566   | 39.467  | ug/l   | 100      |
| 11) Tert butyl alcohol        | 4.72  | 59   | 142365   | 228.995 | ug/l   | 99       |
| 12) 1,1-Dichloroethene        | 3.69  | 96   | 165075   | 41.180  | ug/l   | 98       |
| 13) Acrolein                  | 3.56  | 56   | 46271    | 257.893 | ug/l   | 92       |
| 14) Allyl chloride            | 4.27  | 41   | 217150   | 41.436  | ug/l   | 100      |
| 15) Acrylonitrile             | 4.92  | 53   | 365233   | 210.476 | ug/l   | 99       |
| 16) Acetone                   | 3.77  | 43   | 360962   | 280.987 | ug/l   | 98       |
| 17) Carbon Disulfide          | 4.00  | 76   | 345342   | 39.157  | ug/l   | 99       |
| 18) Methyl Acetate            | 4.27  | 43   | 170960   | 40.405  | ug/l   | 97       |
| 19) Methyl tert-butyl Ether   | 4.98  | 73   | 561557   | 41.104  | ug/l   | 100      |
| 20) Methylene Chloride        | 4.50  | 84   | 184590   | 43.214  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene  | 4.98  | 96   | 190586   | 42.159  | ug/l   | 95       |
| 22) Diisopropyl ether         | 5.90  | 45   | 484656   | 41.960  | ug/l   | 98       |
| 23) Vinyl Acetate             | 5.83  | 43   | 1868975  | 203.016 | ug/l   | 99       |
| 24) 1,1-Dichloroethane        | 5.79  | 63   | 304239   | 41.538  | ug/l   | 99       |
| 25) 2-Butanone                | 6.78  | 43   | 489240   | 220.862 | ug/l   | 99       |
| 26) 2,2-Dichloropropane       | 6.77  | 77   | 294322   | 43.904  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene    | 6.77  | 96   | 219781   | 42.934  | ug/l   | 99       |
| 28) Bromochloromethane        | 7.15  | 49   | 135056   | 49.092  | ug/l   | 99       |
| 29) Tetrahydrofuran           | 7.16  | 42   | 292077   | 199.957 | ug/l   | 98       |
| 30) Chloroform                | 7.32  | 83   | 342702   | 42.292  | ug/l   | 100      |
| 31) Cyclohexane               | 7.61  | 56   | 271548   | 41.223  | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane     | 7.52  | 97   | 315679   | 42.754  | ug/l   | 100      |
| 36) 1,1-Dichloropropene       | 7.75  | 75   | 250284   | 45.209  | ug/l   | 99       |
| 37) Ethyl Acetate             | 6.87  | 43   | 191207   | 42.881  | ug/l   | 98       |
| 38) Carbon Tetrachloride      | 7.73  | 117  | 263615   | 49.366  | ug/l   | 99       |

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 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
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 6/2/2020 4:01:35 PM

Quant Time: Jun 02 03:59:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052820W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 29 02:14:10 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.04  | 83   | 317338   | 46.505   | ug/l   | 97       |
| 40) Benzene                    | 8.00  | 78   | 763052   | 44.671   | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.12  | 41   | 95741m   | 46.864   | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 250590   | 43.819   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.12  | 43   | 341032   | 42.511   | ug/l   | 99       |
| 44) Trichloroethene            | 8.80  | 130  | 236065   | 44.968   | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 181316   | 44.702   | ug/l   | 99       |
| 46) Dibromomethane             | 9.17  | 93   | 139294   | 44.777   | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.36  | 83   | 282851   | 45.893   | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.16  | 41   | 147133   | 40.764   | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.16  | 88   | 59504    | 1064.185 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 970821   | 214.747  | ug/l   | 99       |
| 52) Toluene                    | 10.12 | 92   | 510738   | 45.810   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 302645   | 45.583   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 324910   | 45.513   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 197837   | 44.540   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 278564   | 44.895   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 319680   | 44.999   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 568394   | 214.360  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.72 | 43   | 744512   | 229.314  | ug/l   | 100      |
| 60) Dibromochloromethane       | 10.87 | 129  | 237779   | 47.087   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 214486   | 46.299   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.60 | 164  | 252861   | 44.824   | ug/l   | 98       |
| 65) Chlorobenzene              | 11.40 | 112  | 559066   | 44.880   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 211283   | 45.551   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.48 | 91   | 978265   | 45.436   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.59 | 106  | 777742   | 91.103   | ug/l   | 99       |
| 69) o-Xylene                   | 11.92 | 106  | 370092   | 45.643   | ug/l   | 98       |
| 70) Styrene                    | 11.93 | 104  | 624205   | 46.486   | ug/l   | 99       |
| 71) Bromoform                  | 12.10 | 173  | 166378   | 46.550   | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.22 | 105  | 981156   | 43.650   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.04 | 43   | 296023   | 41.818   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 256486   | 40.718   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 232191m  | 41.462   | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 251569   | 43.845   | ug/l   | 99       |
| 78) n-propylbenzene            | 12.56 | 91   | 1116095  | 44.477   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 642399   | 42.932   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 835718   | 44.483   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 95057    | 43.407   | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.74 | 91   | 671011   | 42.627   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 713714   | 42.996   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 835488   | 44.764   | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.15 | 105  | 956100   | 44.699   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 902247   | 45.803   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 455436   | 44.825   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 460654   | 44.505   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.59 | 91   | 766125   | 46.434   | ug/l   | 99       |
| 90) Hexachloroethane           | 13.85 | 117  | 119688   | 54.941   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.62 | 146  | 438321   | 45.142   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 49888    | 38.834   | ug/l   | 97       |

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Sample : VSTDCCC050  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
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MMDadoda  
6/2/2020 4:01:35 PM

Quant Time: Jun 02 03:59:01 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052820W.M  
Quant Title : SW846 8260  
QLast Update : Fri May 29 02:14:10 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 263672   | 46.432 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 114659   | 47.343 | ug/l  | 99       |
| 95) Naphthalene            | 15.10 | 128  | 756955   | 43.794 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 255974   | 45.847 | ug/l  | 99       |

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

