

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY072320\  
 Data File : VY003308.D  
 Acq On : 23 Jul 2020 11:20  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 7/24/2020 12:58:20 PM

Quant Time: Jul 24 04:55:56 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y071020S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 10 13:18:03 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 432458   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 637421   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 586711   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 315932   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.14   | 65  | 179469   | 49.17 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.34% |      |
| 35) Dibromofluoromethane  | 7.72   | 113 | 176307   | 48.06 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.12% |      |
| 50) Toluene-d8            | 10.18  | 98  | 644022   | 47.22 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.44% |      |
| 62) 4-Bromofluorobenzene  | 12.48  | 95  | 236515   | 48.01 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.02% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.91 | 85  | 125097  | 40.360  | ug/l   | 98     |
| 3) Chloromethane              | 2.12 | 50  | 189072  | 43.977  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.26 | 62  | 201476  | 45.674  | ug/l   | 100    |
| 5) Bromomethane               | 2.65 | 94  | 152147  | 46.436  | ug/l   | 97     |
| 6) Chloroethane               | 2.80 | 64  | 132585  | 45.761  | ug/l   | 100    |
| 7) Trichlorofluoromethane     | 3.13 | 101 | 292253  | 46.392  | ug/l   | 100    |
| 8) Diethyl Ether              | 3.54 | 74  | 100794  | 47.748  | ug/l   | 90     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.91 | 101 | 178683  | 46.964  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.10 | 142 | 194490  | 47.052  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.96 | 59  | 89494   | 226.744 | ug/l # | 86     |
| 12) 1,1-Dichloroethene        | 3.88 | 96  | 167420  | 46.523  | ug/l   | 98     |
| 13) Acrolein                  | 3.74 | 56  | 71131   | 207.633 | ug/l   | 100    |
| 14) Allyl chloride            | 4.49 | 41  | 288333  | 53.997  | ug/l   | 94     |
| 15) Acrylonitrile             | 5.18 | 53  | 268264  | 264.553 | ug/l   | 99     |
| 16) Acetone                   | 3.95 | 43  | 221642  | 271.846 | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.20 | 76  | 511735  | 46.342  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.48 | 43  | 124200  | 54.853  | ug/l   | 96     |
| 19) Methyl tert-butyl Ether   | 5.22 | 73  | 492630  | 48.849  | ug/l   | 100    |
| 20) Methylene Chloride        | 4.72 | 84  | 196783  | 47.719  | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 5.23 | 96  | 195046  | 47.920  | ug/l   | 99     |
| 22) Diisopropyl ether         | 6.13 | 45  | 638009  | 53.836  | ug/l   | 94     |
| 23) Vinyl Acetate             | 6.07 | 43  | 2075007 | 262.695 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 6.02 | 63  | 347028  | 50.544  | ug/l   | 100    |
| 25) 2-Butanone                | 6.99 | 43  | 351870  | 262.848 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 6.99 | 77  | 313009  | 50.623  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 6.99 | 96  | 221225  | 49.365  | ug/l   | 98     |
| 28) Bromochloromethane        | 7.34 | 49  | 162304  | 54.601  | ug/l   | 96     |
| 29) Tetrahydrofuran           | 7.35 | 42  | 232927  | 259.007 | ug/l   | 95     |
| 30) Chloroform                | 7.51 | 83  | 355736  | 50.307  | ug/l   | 98     |
| 31) Cyclohexane               | 7.78 | 56  | 314653  | 47.394  | ug/l   | 94     |
| 32) 1,1,1-Trichloroethane     | 7.71 | 97  | 315801  | 49.607  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.92 | 75  | 277574  | 48.047  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.08 | 43  | 158169  | 50.839  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 7.91 | 117 | 291834  | 48.932  | ug/l   | 97     |

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Manual Integrations  
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 7/24/2020 12:58:20 PM

Quant Time: Jul 24 04:55:56 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y071020S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 10 13:18:03 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.19  | 83   | 335279   | 46.198  | ug/l   | 97       |
| 40) Benzene                    | 8.16  | 78   | 775322   | 48.740  | ug/l   | 96       |
| 41) Methacrylonitrile          | 7.33  | 41   | 105139m  | 56.111  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.24  | 62   | 236916   | 48.378  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.28  | 43   | 304449   | 50.556  | ug/l   | 99       |
| 44) Trichloroethene            | 8.94  | 130  | 224576   | 46.053  | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 9.22  | 63   | 206368   | 50.137  | ug/l   | 99       |
| 46) Dibromomethane             | 9.31  | 93   | 114297   | 47.544  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.50  | 83   | 285271   | 49.893  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.29  | 41   | 136546   | 50.719  | ug/l   | 93       |
| 49) 1,4-Dioxane                | 9.30  | 88   | 28147    | 922.509 | ug/l # | 85       |
| 51) 4-Methyl-2-Pentanone       | 10.07 | 43   | 791547   | 252.883 | ug/l   | 98       |
| 52) Toluene                    | 10.24 | 92   | 491464   | 48.337  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 296702   | 50.085  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.93  | 75   | 335784   | 49.195  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.64 | 97   | 166553   | 48.891  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.51 | 69   | 231711   | 50.030  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.79 | 76   | 281208   | 48.684  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.78  | 63   | 624049   | 264.200 | ug/l   | 97       |
| 59) 2-Hexanone                 | 10.83 | 43   | 555692   | 254.317 | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.99 | 129  | 207679   | 48.470  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.09 | 107  | 157020   | 46.701  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.72 | 164  | 226339   | 43.266  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.52 | 112  | 552181   | 48.854  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.59 | 131  | 217079   | 49.450  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.59 | 91   | 993117   | 49.211  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.70 | 106  | 742273   | 96.938  | ug/l   | 99       |
| 69) o-Xylene                   | 12.03 | 106  | 348267   | 48.685  | ug/l   | 98       |
| 70) Styrene                    | 12.04 | 104  | 613579   | 50.140  | ug/l   | 100      |
| 71) Bromoform                  | 12.20 | 173  | 140108   | 48.628  | ug/l   | 99       |
| 73) Isopropylbenzene           | 12.33 | 105  | 965479   | 47.954  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.14 | 43   | 285105   | 50.469  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 187750   | 48.284  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 134463m  | 48.082  | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 246403   | 48.013  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.67 | 91   | 1163992  | 49.047  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 641139   | 48.421  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 819724   | 48.851  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 69669    | 48.485  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.85 | 91   | 671558   | 48.592  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.07 | 119  | 732253   | 49.456  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 829394   | 49.124  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.25 | 105  | 996729   | 48.979  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.37 | 119  | 941483   | 49.548  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.36 | 146  | 468330   | 48.257  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.44 | 146  | 471467   | 49.068  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.69 | 91   | 897737   | 50.229  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.96 | 117  | 177595   | 51.323  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 419555   | 49.262  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 30011    | 47.606  | ug/l   | 98       |

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QLast Update : Fri Jul 10 13:18:03 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.00 | 180  | 299986   | 49.512 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.11 | 225  | 197992   | 47.690 | ug/l  | 100      |
| 95) Naphthalene            | 15.23 | 128  | 496514   | 49.586 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.42 | 180  | 239393   | 49.983 | ug/l  | 97       |

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

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