

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY051220\  
 Data File : VY002661.D  
 Acq On : 12 May 2020 12:25  
 Operator : SY/MD  
 Sample : VY0512SBSD01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0512SBSD01

Quant Time: May 13 02:42:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 04 12:22:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 409588   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 601137   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 533660   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 276075   | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.15  | 65   | 147899   | 42.95 | ug/l   | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 85.90% |          |
| 35) Dibromofluoromethane    | 7.72  | 113  | 164165   | 47.75 | ug/l   | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 95.50% |          |
| 50) Toluene-d8              | 10.18 | 98   | 638812   | 47.58 | ug/l   | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 95.16% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 218464   | 47.95 | ug/l   | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 95.90% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.90 | 85   | 43292    | 14.120 | ug/l  | 96     |
| 3) Chloromethane              | 2.12 | 50   | 52477    | 15.814 | ug/l  | 96     |
| 4) Vinyl Chloride             | 2.26 | 62   | 63060    | 16.457 | ug/l  | 96     |
| 5) Bromomethane               | 2.65 | 94   | 45411    | 17.185 | ug/l  | 98     |
| 6) Chloroethane               | 2.79 | 64   | 39638    | 17.325 | ug/l  | 99     |
| 7) Trichlorofluoromethane     | 3.13 | 101  | 105701   | 17.799 | ug/l  | 96     |
| 8) Diethyl Ether              | 3.54 | 74   | 36173    | 18.126 | ug/l  | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.91 | 101  | 68044    | 18.747 | ug/l  | 98     |
| 10) Methyl Iodide             | 4.10 | 142  | 87486    | 17.692 | ug/l  | 98     |
| 11) Tert butyl alcohol        | 4.96 | 59   | 29416    | 83.022 | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 3.88 | 96   | 65701    | 18.634 | ug/l  | 98     |
| 13) Acrolein                  | 3.74 | 56   | 15860    | 64.732 | ug/l  | 97     |
| 14) Allyl chloride            | 4.49 | 41   | 97871    | 19.051 | ug/l  | 97     |
| 15) Acrylonitrile             | 5.18 | 53   | 83024    | 88.218 | ug/l  | 99     |
| 16) Acetone                   | 3.96 | 43   | 56479    | 79.465 | ug/l  | 98     |
| 17) Carbon Disulfide          | 4.20 | 76   | 173542   | 16.360 | ug/l  | 99     |
| 18) Methyl Acetate            | 4.49 | 43   | 41679    | 17.551 | ug/l  | 97     |
| 19) Methyl tert-butyl Ether   | 5.23 | 73   | 167022   | 18.156 | ug/l  | 97     |
| 20) Methylene Chloride        | 4.72 | 84   | 73029    | 18.374 | ug/l  | 97     |
| 21) trans-1,2-Dichloroethene  | 5.23 | 96   | 71480    | 18.548 | ug/l  | 94     |
| 22) Diisopropyl ether         | 6.13 | 45   | 201856   | 19.419 | ug/l  | 97     |
| 23) Vinyl Acetate             | 6.07 | 43   | 591646   | 90.504 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 6.03 | 63   | 119238   | 19.390 | ug/l  | 99     |
| 25) 2-Butanone                | 7.00 | 43   | 97820    | 84.078 | ug/l  | 96     |
| 26) 2,2-Dichloropropane       | 6.99 | 77   | 111143   | 19.014 | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 7.00 | 96   | 82220    | 19.282 | ug/l  | 99     |
| 28) Bromochloromethane        | 7.34 | 49   | 47801    | 18.972 | ug/l  | 99     |
| 29) Tetrahydrofuran           | 7.36 | 42   | 66895    | 86.904 | ug/l  | 98     |
| 30) Chloroform                | 7.52 | 83   | 121619   | 19.020 | ug/l  | 99     |
| 31) Cyclohexane               | 7.79 | 56   | 113924   | 18.405 | ug/l  | 97     |
| 32) 1,1,1-Trichloroethane     | 7.71 | 97   | 112668   | 18.958 | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 7.93 | 75   | 96949    | 19.238 | ug/l  | 99     |
| 37) Ethyl Acetate             | 7.08 | 43   | 45692    | 17.644 | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 7.91 | 117  | 104299   | 18.957 | ug/l  | 97     |

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 Quant Title : SW846 8260  
 QLast Update : Mon May 04 12:22:08 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.19  | 83   | 125863   | 18.910  | ug/l   | 99       |
| 40) Benzene                    | 8.17  | 78   | 282115   | 19.383  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.32  | 41   | 22521m   | 16.175  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.24  | 62   | 72856    | 17.845  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.28  | 43   | 86555    | 17.829  | ug/l   | 99       |
| 44) Trichloroethene            | 8.94  | 130  | 90499    | 19.896  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.22  | 63   | 69111    | 19.674  | ug/l   | 99       |
| 46) Dibromomethane             | 9.31  | 93   | 36756    | 18.186  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.50  | 83   | 94350    | 19.199  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.30  | 41   | 38497    | 17.521  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.30  | 88   | 9821     | 367.004 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.07 | 43   | 232071   | 92.741  | ug/l   | 99       |
| 52) Toluene                    | 10.24 | 92   | 181725   | 19.427  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 96713    | 18.783  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.93  | 75   | 112785   | 18.947  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.64 | 97   | 56101    | 19.035  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.51 | 69   | 72905    | 18.594  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.79 | 76   | 93142    | 18.635  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.78  | 63   | 198106   | 95.811  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.83 | 43   | 154425   | 89.663  | ug/l   | 98       |
| 60) Dibromochloromethane       | 10.99 | 129  | 70585    | 18.830  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.09 | 107  | 53742    | 18.415  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.72 | 164  | 100158   | 21.123  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.52 | 112  | 202704   | 19.981  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.59 | 131  | 75191    | 19.967  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.60 | 91   | 359606   | 20.180  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.70 | 106  | 275234   | 39.918  | ug/l   | 100      |
| 69) o-Xylene                   | 12.03 | 106  | 130785   | 20.258  | ug/l   | 100      |
| 70) Styrene                    | 12.05 | 104  | 223669   | 20.266  | ug/l   | 99       |
| 71) Bromoform                  | 12.21 | 173  | 44826    | 19.178  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.33 | 105  | 364849   | 20.391  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.14 | 43   | 81662    | 18.973  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 49510    | 17.399  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 44390m   | 18.093  | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 89802    | 20.089  | ug/l   | 96       |
| 78) n-propylbenzene            | 12.67 | 91   | 418458   | 20.153  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 229154   | 19.924  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 302012   | 20.363  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 22826    | 18.656  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 241793   | 20.013  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.08 | 119  | 266842   | 20.519  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 298721   | 20.210  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.25 | 105  | 372163   | 20.624  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.37 | 119  | 347656   | 20.561  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.36 | 146  | 168734   | 19.943  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.45 | 146  | 168665   | 20.133  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.70 | 91   | 318720   | 20.706  | ug/l   | 100      |
| 90) Hexachloroethane           | 13.96 | 117  | 63058    | 20.479  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 149709   | 19.830  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 9579     | 18.059  | ug/l   | 98       |

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Quant Title : SW846 8260  
QLast Update : Mon May 04 12:22:08 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.01 | 180  | 112196   | 20.470 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.11 | 225  | 69693    | 21.183 | ug/l  | 98       |
| 95) Naphthalene            | 15.24 | 128  | 192717   | 19.274 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.42 | 180  | 93096    | 20.008 | ug/l  | 99       |

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

