

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY012320\  
 Data File : VY001347.D  
 Acq On : 23 Jan 2020 12:44  
 Operator : SY/MD  
 Sample : VY0123SBS01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0123SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 1/24/2020 4:03:31 PM

Quant Time: Jan 24 07:28:43 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 01:21:47 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.82  | 168  | 204401   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 351793   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 308260   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 148057   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.17   | 65  | 115152   | 51.77 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.54% |      |
| 35) Dibromofluoromethane  | 7.75   | 113 | 107783   | 52.20 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.40% |      |
| 50) Toluene-d8            | 10.19  | 98  | 442965   | 55.22 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.44% |      |
| 62) 4-Bromofluorobenzene  | 12.49  | 95  | 161092   | 50.43 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.86% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.91 | 85  | 36058  | 22.370  | ug/l   | 95     |
| 3) Chloromethane              | 2.13 | 50  | 50021  | 20.532  | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.27 | 62  | 54078  | 21.288  | ug/l   | 95     |
| 5) Bromomethane               | 2.66 | 94  | 35503  | 20.752  | ug/l   | 98     |
| 6) Chloroethane               | 2.81 | 64  | 33563  | 20.677  | ug/l   | 95     |
| 7) Trichlorofluoromethane     | 3.15 | 101 | 69223  | 21.298  | ug/l   | 97     |
| 8) Diethyl Ether              | 3.55 | 74  | 26825  | 19.551  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.93 | 101 | 45741  | 22.099  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.12 | 142 | 54537  | 19.977  | ug/l   | 100    |
| 11) Tert butyl alcohol        | 4.99 | 59  | 33175  | 107.598 | ug/l # | 94     |
| 12) 1,1-Dichloroethene        | 3.90 | 96  | 44793  | 20.640  | ug/l   | 98     |
| 13) Acrolein                  | 3.76 | 56  | 18704  | 105.939 | ug/l   | 95     |
| 14) Allyl chloride            | 4.52 | 41  | 78486  | 20.280  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.21 | 53  | 65710  | 93.563  | ug/l   | 98     |
| 16) Acetone                   | 3.98 | 43  | 57489  | 93.370  | ug/l   | 96     |
| 17) Carbon Disulfide          | 4.22 | 76  | 142395 | 20.862  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.51 | 43  | 33314  | 17.761  | ug/l   | 100    |
| 19) Methyl tert-butyl Ether   | 5.26 | 73  | 121939 | 19.190  | ug/l   | 98     |
| 20) Methylene Chloride        | 4.75 | 84  | 55766  | 17.554  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.26 | 96  | 49803  | 19.756  | ug/l   | 97     |
| 22) Diisopropyl ether         | 6.16 | 45  | 157942 | 19.218  | ug/l   | 96     |
| 23) Vinyl Acetate             | 6.10 | 43  | 508177 | 95.247  | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.06 | 63  | 87091  | 20.105  | ug/l   | 97     |
| 25) 2-Butanone                | 7.02 | 43  | 90365  | 93.344  | ug/l   | 95     |
| 26) 2,2-Dichloropropane       | 7.02 | 77  | 77163  | 19.998  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.02 | 96  | 56135  | 19.925  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.36 | 49  | 31713  | 17.752  | ug/l   | 99     |
| 29) Tetrahydrofuran           | 7.38 | 42  | 58613  | 93.063  | ug/l   | 98     |
| 30) Chloroform                | 7.54 | 83  | 83152  | 19.584  | ug/l   | 100    |
| 31) Cyclohexane               | 7.81 | 56  | 88985  | 20.690  | ug/l   | 95     |
| 32) 1,1,1-Trichloroethane     | 7.73 | 97  | 73362  | 20.463  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.94 | 75  | 69572  | 20.933  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.11 | 43  | 39409  | 19.408  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 7.93 | 117 | 63221  | 21.344  | ug/l   | 97     |

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Quant Time: Jan 24 07:28:43 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 01:21:47 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.20  | 83   | 93652    | 21.996  | ug/l   | 97       |
| 40) Benzene                    | 8.19  | 78   | 204315   | 20.502  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.35  | 41   | 19579m   | 18.685  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.26  | 62   | 54518    | 19.579  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.30  | 43   | 76675    | 19.419  | ug/l   | 100      |
| 44) Trichloroethene            | 8.96  | 130  | 52257    | 20.435  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.24  | 63   | 51654    | 20.504  | ug/l   | 100      |
| 46) Dibromomethane             | 9.32  | 93   | 26372    | 19.500  | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.52  | 83   | 64491    | 19.947  | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.31  | 41   | 34769    | 19.370  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.32  | 88   | 7475     | 391.933 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 192908   | 94.869  | ug/l   | 99       |
| 52) Toluene                    | 10.25 | 92   | 128732   | 20.378  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 70171    | 19.582  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.94  | 75   | 81844    | 19.898  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 10.66 | 97   | 38718    | 19.396  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 10.52 | 69   | 57645    | 19.106  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.80 | 76   | 68839    | 19.797  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.80  | 63   | 108340   | 103.772 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.85 | 43   | 136987   | 96.770  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.00 | 129  | 43048    | 19.281  | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 11.10 | 107  | 37074    | 19.646  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.73 | 164  | 42481    | 21.574  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.53 | 112  | 132979   | 20.466  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.60 | 131  | 45298    | 20.428  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.60 | 91   | 250332   | 20.905  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.71 | 106  | 185901   | 41.567  | ug/l   | 100      |
| 69) o-Xylene                   | 12.04 | 106  | 88666    | 20.609  | ug/l   | 100      |
| 70) Styrene                    | 12.05 | 104  | 154225   | 20.431  | ug/l   | 99       |
| 71) Bromoform                  | 12.22 | 173  | 25941    | 19.598  | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.34 | 105  | 238835   | 20.443  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.15 | 43   | 71857    | 18.790  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.59 | 83   | 47089    | 18.820  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 29351m   | 16.451  | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 51714    | 19.985  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.68 | 91   | 292585   | 20.807  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.77 | 91   | 162834   | 20.270  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.82 | 105  | 199787   | 20.487  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.39 | 75   | 17756    | 18.834  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 174296   | 20.312  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.08 | 119  | 169908   | 20.669  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.13 | 105  | 200573   | 20.486  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.26 | 105  | 245420   | 21.013  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.38 | 119  | 216518   | 21.037  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.38 | 146  | 102545   | 20.577  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.45 | 146  | 102081   | 20.174  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.70 | 91   | 217541   | 21.002  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.97 | 117  | 40156    | 20.583  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.75 | 146  | 92115    | 20.042  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 8006     | 18.543  | ug/l   | 98       |

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Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.02 | 180  | 60994    | 19.773 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.12 | 225  | 31088    | 20.698 | ug/l  | 96       |
| 95) Naphthalene            | 15.24 | 128  | 137799   | 19.536 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.43 | 180  | 53977    | 19.948 | ug/l  | 99       |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY012320\  
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