

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY110520\  
 Data File : VY003518.D  
 Acq On : 05 Nov 2020 11:45  
 Operator : SY/MD  
 Sample : VY1105SBS01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1105SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 11/6/2020 9:27:06 AM

Quant Time: Nov 05 23:59:42 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y110220S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 02 12:40:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 229044   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 327719   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 298068   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 162948   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.15   | 65  | 114485   | 48.76 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.52% |      |
| 35) Dibromofluoromethane  | 7.72   | 113 | 98355    | 49.32 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.64% |      |
| 50) Toluene-d8            | 10.18  | 98  | 398733   | 48.06 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.12% |      |
| 62) 4-Bromofluorobenzene  | 12.48  | 95  | 134472   | 48.92 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.84% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.91 | 85  | 37840  | 20.880  | ug/l   | 100    |
| 3) Chloromethane              | 2.11 | 50  | 50626  | 21.220  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.26 | 62  | 56018  | 20.918  | ug/l   | 98     |
| 5) Bromomethane               | 2.65 | 94  | 44207  | 19.758  | ug/l   | 97     |
| 6) Chloroethane               | 2.79 | 64  | 34276  | 21.474  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 3.13 | 101 | 69718  | 20.510  | ug/l   | 100    |
| 8) Diethyl Ether              | 3.54 | 74  | 22713  | 21.789  | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.90 | 101 | 39656  | 21.108  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.09 | 142 | 37746  | 22.376  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.96 | 59  | 36678  | 148.720 | ug/l # | 91     |
| 12) 1,1-Dichloroethene        | 3.88 | 96  | 37708  | 20.173  | ug/l   | 95     |
| 13) Acrolein                  | 3.74 | 56  | 18647  | 95.690  | ug/l   | 97     |
| 14) Allyl chloride            | 4.49 | 41  | 69117  | 20.267  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.18 | 53  | 54822  | 98.526  | ug/l   | 99     |
| 16) Acetone                   | 3.96 | 43  | 67799  | 87.527  | ug/l   | 96     |
| 17) Carbon Disulfide          | 4.20 | 76  | 121276 | 20.027  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.49 | 43  | 30528  | 20.855  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 5.24 | 73  | 98170  | 21.204  | ug/l   | 99     |
| 20) Methylene Chloride        | 4.72 | 84  | 46568  | 21.347  | ug/l   | 100    |
| 21) trans-1,2-Dichloroethene  | 5.23 | 96  | 44265  | 20.451  | ug/l   | 96     |
| 22) Diisopropyl ether         | 6.13 | 45  | 132892 | 22.217  | ug/l   | 96     |
| 23) Vinyl Acetate             | 6.07 | 43  | 469244 | 104.393 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.02 | 63  | 81310  | 21.391  | ug/l   | 98     |
| 25) 2-Butanone                | 6.99 | 43  | 90212  | 93.116  | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 6.99 | 77  | 74081  | 20.920  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.99 | 96  | 50367  | 21.475  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.34 | 49  | 37259  | 19.485  | ug/l   | 100    |
| 29) Tetrahydrofuran           | 7.35 | 42  | 50608  | 99.969  | ug/l   | 98     |
| 30) Chloroform                | 7.51 | 83  | 81023  | 21.702  | ug/l   | 99     |
| 31) Cyclohexane               | 7.79 | 56  | 69901  | 19.861  | ug/l   | 92     |
| 32) 1,1,1-Trichloroethane     | 7.71 | 97  | 73514  | 21.107  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.92 | 75  | 63498  | 20.550  | ug/l   | 100    |
| 37) Ethyl Acetate             | 7.08 | 43  | 37956  | 19.782  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 7.91 | 117 | 66120  | 20.627  | ug/l   | 97     |

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| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.19  | 83   | 68287    | 19.848  | ug/l   | 99       |
| 40) Benzene                    | 8.16  | 78   | 181411   | 21.097  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.33  | 41   | 23247m   | 22.689  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.24  | 62   | 57341    | 21.282  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.28  | 43   | 69585    | 20.180  | ug/l   | 98       |
| 44) Trichloroethene            | 8.94  | 130  | 50669    | 20.990  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.22  | 63   | 46785    | 21.545  | ug/l   | 96       |
| 46) Dibromomethane             | 9.31  | 93   | 25457    | 21.309  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.50  | 83   | 63962    | 21.874  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.29  | 41   | 31981    | 19.689  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.30  | 88   | 6167     | 413.708 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.07 | 43   | 187060   | 101.818 | ug/l   | 99       |
| 52) Toluene                    | 10.24 | 92   | 115348   | 21.447  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 66518    | 21.376  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene    | 9.93  | 75   | 74597    | 21.303  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.64 | 97   | 36378    | 21.451  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.51 | 69   | 46939    | 20.664  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.79 | 76   | 64173    | 21.762  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.78  | 63   | 126474   | 109.830 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.83 | 43   | 132444   | 97.366  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.99 | 129  | 45011    | 21.594  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.09 | 107  | 34007    | 20.771  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.72 | 164  | 48345    | 21.718  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.52 | 112  | 125171   | 21.616  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.59 | 131  | 45944    | 21.038  | ug/l   | 96       |
| 67) Ethyl Benzene              | 11.59 | 91   | 220564   | 21.006  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.70 | 106  | 168628   | 42.378  | ug/l   | 100      |
| 69) o-Xylene                   | 12.03 | 106  | 78140    | 21.348  | ug/l   | 100      |
| 70) Styrene                    | 12.04 | 104  | 134897   | 21.705  | ug/l   | 100      |
| 71) Bromoform                  | 12.20 | 173  | 31101    | 21.366  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.33 | 105  | 213879   | 20.093  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.14 | 43   | 60106    | 19.935  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 44901    | 19.749  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 29928m   | 17.359  | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 55307    | 20.450  | ug/l   | 100      |
| 78) n-propylbenzene            | 12.67 | 91   | 256142   | 20.430  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 142222   | 20.303  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 183019   | 20.752  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 15706    | 19.013  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.85 | 91   | 149441   | 20.415  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.07 | 119  | 155832   | 19.923  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 183942   | 20.869  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.25 | 105  | 217701   | 20.555  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.37 | 119  | 201653   | 20.530  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.36 | 146  | 107431   | 21.324  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.44 | 146  | 104981   | 20.956  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.69 | 91   | 186587   | 20.798  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.96 | 117  | 34357    | 20.784  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.73 | 146  | 94667    | 21.152  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 7803     | 18.959  | ug/l   | 98       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.00 | 180  | 69522    | 21.961 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.11 | 225  | 43659    | 21.438 | ug/l  | 99       |
| 95) Naphthalene            | 15.23 | 128  | 125845   | 19.852 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.42 | 180  | 61149    | 21.473 | ug/l  | 98       |

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

