

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY020320\  
 Data File : VY001465.D  
 Acq On : 03 Feb 2020 11:47  
 Operator : SY/MD  
 Sample : VY0203SBS01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0203SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 2/4/2020 11:21:43 AM

Quant Time: Feb 03 14:05:32 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      | 7.81  | 168  | 185352   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 324294   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 290090   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 140823   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.16  | 65   | 101842   | 50.49 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.98% |          |
| 35) Dibromofluoromethane    | 7.74  | 113  | 95808    | 50.34 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.68% |          |
| 50) Toluene-d8              | 10.19 | 98   | 381961   | 51.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.30% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 142638   | 48.44 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.88%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.91 | 85   | 31279    | 21.399  | ug/l  | 99     |
| 3) Chloromethane              | 2.13 | 50   | 48649    | 22.021  | ug/l  | 93     |
| 4) Vinyl Chloride             | 2.27 | 62   | 49126    | 21.326  | ug/l  | 92     |
| 5) Bromomethane               | 2.66 | 94   | 32923    | 21.222  | ug/l  | 98     |
| 6) Chloroethane               | 2.81 | 64   | 31969    | 21.719  | ug/l  | 95     |
| 7) Trichlorofluoromethane     | 3.15 | 101  | 67529    | 22.912  | ug/l  | 95     |
| 8) Diethyl Ether              | 3.55 | 74   | 26655    | 21.424  | ug/l  | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.92 | 101  | 43565    | 23.211  | ug/l  | 98     |
| 10) Methyl Iodide             | 4.12 | 142  | 49464    | 19.981  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 4.99 | 59   | 32495    | 117.909 | ug/l  | 96     |
| 12) 1,1-Dichloroethene        | 3.90 | 96   | 44082    | 22.400  | ug/l  | 98     |
| 13) Acrolein                  | 3.75 | 56   | 17771    | 111.650 | ug/l  | 99     |
| 14) Allyl chloride            | 4.50 | 41   | 79674    | 22.702  | ug/l  | 97     |
| 15) Acrylonitrile             | 5.20 | 53   | 72022    | 113.089 | ug/l  | 100    |
| 16) Acetone                   | 3.97 | 43   | 68216    | 124.590 | ug/l  | 97     |
| 17) Carbon Disulfide          | 4.22 | 76   | 134328   | 21.703  | ug/l  | 98     |
| 18) Methyl Acetate            | 4.50 | 43   | 37072    | 21.796  | ug/l  | 98     |
| 19) Methyl tert-butyl Ether   | 5.25 | 73   | 125743   | 21.822  | ug/l  | 97     |
| 20) Methylene Chloride        | 4.74 | 84   | 56185    | 20.018  | ug/l  | 97     |
| 21) trans-1,2-Dichloroethene  | 5.25 | 96   | 49983    | 21.865  | ug/l  | 98     |
| 22) Diisopropyl ether         | 6.15 | 45   | 163665   | 21.961  | ug/l  | 94     |
| 23) Vinyl Acetate             | 6.09 | 43   | 538143   | 111.229 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 6.05 | 63   | 87154    | 22.187  | ug/l  | 98     |
| 25) 2-Butanone                | 7.02 | 43   | 103006   | 117.337 | ug/l  | 98     |
| 26) 2,2-Dichloropropane       | 7.01 | 77   | 77866    | 22.254  | ug/l  | 98     |
| 27) cis-1,2-Dichloroethene    | 7.02 | 96   | 56232    | 22.010  | ug/l  | 97     |
| 28) Bromochloromethane        | 7.36 | 49   | 31133    | 19.219  | ug/l  | 98     |
| 29) Tetrahydrofuran           | 7.37 | 42   | 63071    | 110.433 | ug/l  | 99     |
| 30) Chloroform                | 7.53 | 83   | 84908    | 22.053  | ug/l  | 99     |
| 31) Cyclohexane               | 7.80 | 56   | 86954    | 22.295  | ug/l  | 97     |
| 32) 1,1,1-Trichloroethane     | 7.72 | 97   | 73778    | 22.694  | ug/l  | 98     |
| 36) 1,1-Dichloropropene       | 7.94 | 75   | 69111    | 22.558  | ug/l  | 99     |
| 37) Ethyl Acetate             | 7.10 | 43   | 42792    | 22.860  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 7.92 | 117  | 62615    | 22.932  | ug/l  | 99     |

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Quant Time: Feb 03 14:05:32 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   | 90218    | 22.986  | ug/l   | 98       |
| 40) Benzene                    | 8.18  | 78   | 205188   | 22.336  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.33  | 41   | 18383m   | 19.031  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.26  | 62   | 56677    | 22.080  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.29  | 43   | 82915    | 22.780  | ug/l   | 99       |
| 44) Trichloroethene            | 8.96  | 130  | 52875    | 22.430  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.24  | 63   | 51794    | 22.303  | ug/l   | 100      |
| 46) Dibromomethane             | 9.32  | 93   | 27898    | 22.377  | ug/l   | 95       |
| 47) Bromodichloromethane       | 9.51  | 83   | 66682    | 22.374  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.31  | 41   | 36975    | 22.346  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.31  | 88   | 7724     | 439.330 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 211386   | 112.772 | ug/l   | 100      |
| 52) Toluene                    | 10.25 | 92   | 129824   | 22.294  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.48 | 75   | 74342    | 22.505  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.94  | 75   | 85079    | 22.439  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 10.66 | 97   | 40244    | 21.870  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 10.52 | 69   | 62332    | 22.412  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.80 | 76   | 73068    | 22.794  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.80  | 63   | 108660   | 112.904 | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.85 | 43   | 153749   | 117.820 | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.00 | 129  | 45008    | 21.869  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.10 | 107  | 38866    | 22.342  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.73 | 164  | 41508    | 22.401  | ug/l   | 95       |
| 65) Chlorobenzene              | 11.53 | 112  | 137223   | 22.441  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.60 | 131  | 46864    | 22.458  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.60 | 91   | 253454   | 22.492  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.71 | 106  | 191428   | 45.484  | ug/l   | 97       |
| 69) o-Xylene                   | 12.04 | 106  | 89878    | 22.199  | ug/l   | 100      |
| 70) Styrene                    | 12.05 | 104  | 155953   | 21.954  | ug/l   | 99       |
| 71) Bromoform                  | 12.22 | 173  | 27165    | 21.808  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.34 | 105  | 244185   | 21.975  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.15 | 43   | 78650    | 21.623  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.59 | 83   | 52340    | 21.993  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 35583m   | 20.969  | ug/l   |          |
| 77) Bromobenzene               | 12.62 | 156  | 52746    | 21.431  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.68 | 91   | 295734   | 22.111  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.77 | 91   | 167054   | 21.863  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.82 | 105  | 204071   | 22.001  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.39 | 75   | 19615    | 21.874  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 173921   | 21.309  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.08 | 119  | 172013   | 22.000  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.13 | 105  | 204771   | 21.989  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.26 | 105  | 249184   | 22.432  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.38 | 119  | 220014   | 22.475  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.38 | 146  | 105124   | 22.178  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.45 | 146  | 104767   | 21.768  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.70 | 91   | 222745   | 22.609  | ug/l   | 100      |
| 90) Hexachloroethane           | 13.97 | 117  | 41044    | 22.119  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.75 | 146  | 95667    | 21.884  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.37 | 75   | 8985     | 21.880  | ug/l   | 96       |

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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) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.02 | 180  | 62734    | 21.382 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.12 | 225  | 31044    | 21.730 | ug/l  | 97       |
| 95) Naphthalene            | 15.25 | 128  | 146526   | 21.841 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.43 | 180  | 55676    | 21.632 | ug/l  | 100      |

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

