

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY040220\  
 Data File : VY002185.D  
 Acq On : 02 Apr 2020 12:40  
 Operator : SY/MD  
 Sample : VY0402SBS01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0402SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 4/6/2020 11:28:38 AM

Quant Time: Apr 03 03:45:16 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y032620S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 07:11:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.81  | 168  | 151256   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 272997   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 250513   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 116553   | 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   | 81029    | 48.46 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 96.92% |          |
| 35) Dibromofluoromethane    | 7.74  | 113  | 76158    | 49.79 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 99.58% |          |
| 50) Toluene-d8              | 10.19 | 98   | 315293   | 49.62 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 99.24% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 108704   | 48.91 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 97.82% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.91 | 85   | 30409    | 27.893  | ug/l   | 98     |
| 3) Chloromethane              | 2.13 | 50   | 38756    | 21.925  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.26 | 62   | 40543    | 22.552  | ug/l   | 97     |
| 5) Bromomethane               | 2.66 | 94   | 26675    | 22.737  | ug/l   | 97     |
| 6) Chloroethane               | 2.80 | 64   | 25494    | 22.085  | ug/l   | 95     |
| 7) Trichlorofluoromethane     | 3.15 | 101  | 53547    | 21.736  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.55 | 74   | 21771    | 20.865  | ug/l   | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 3.92 | 101  | 35057    | 21.689  | ug/l   | 96     |
| 10) Methyl Iodide             | 4.12 | 142  | 38403    | 19.981  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.97 | 59   | 28878    | 146.554 | ug/l # | 86     |
| 12) 1,1-Dichloroethene        | 3.90 | 96   | 34313    | 20.907  | ug/l   | 98     |
| 13) Acrolein                  | 3.76 | 56   | 19966    | 81.071  | ug/l   | 98     |
| 14) Allyl chloride            | 4.50 | 41   | 60857    | 20.255  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.20 | 53   | 58764    | 107.448 | ug/l   | 98     |
| 16) Acetone                   | 3.97 | 43   | 47424    | 100.951 | ug/l   | 97     |
| 17) Carbon Disulfide          | 4.22 | 76   | 111514   | 20.473  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.50 | 43   | 25340    | 20.773  | ug/l   | 96     |
| 19) Methyl tert-butyl Ether   | 5.25 | 73   | 94387    | 20.615  | ug/l   | 97     |
| 20) Methylene Chloride        | 4.74 | 84   | 46589    | 20.981  | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 5.25 | 96   | 39193    | 20.973  | ug/l   | 98     |
| 22) Diisopropyl ether         | 6.14 | 45   | 124678   | 20.277  | ug/l   | 99     |
| 23) Vinyl Acetate             | 6.09 | 43   | 411634   | 102.091 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.05 | 63   | 67927    | 20.777  | ug/l   | 96     |
| 25) 2-Butanone                | 7.01 | 43   | 75208    | 104.262 | ug/l   | 94     |
| 26) 2,2-Dichloropropane       | 7.01 | 77   | 56501    | 20.984  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 7.01 | 96   | 42953    | 20.893  | ug/l   | 100    |
| 28) Bromochloromethane        | 7.36 | 49   | 29818    | 19.978  | ug/l   | 100    |
| 29) Tetrahydrofuran           | 7.36 | 42   | 49180    | 103.989 | ug/l   | 98     |
| 30) Chloroform                | 7.53 | 83   | 63399    | 20.459  | ug/l   | 96     |
| 31) Cyclohexane               | 7.80 | 56   | 71437    | 20.506  | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 7.72 | 97   | 53670    | 20.744  | ug/l   | 100    |
| 36) 1,1-Dichloropropene       | 7.94 | 75   | 53422    | 20.689  | ug/l   | 98     |
| 37) Ethyl Acetate             | 7.10 | 43   | 33741    | 21.623  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 7.92 | 117  | 45321    | 20.687  | ug/l   | 95     |

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 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 07:11:05 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.19  | 83   | 71311    | 21.054  | ug/l   | 98       |
| 40) Benzene                    | 8.18  | 78   | 160955   | 21.043  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.34  | 41   | 13818m   | 17.507  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.25  | 62   | 41869    | 20.618  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.29  | 43   | 60144    | 20.767  | ug/l   | 99       |
| 44) Trichloroethene            | 8.95  | 130  | 39816    | 21.595  | ug/l   | 88       |
| 45) 1,2-Dichloropropane        | 9.23  | 63   | 40588    | 20.841  | ug/l   | 96       |
| 46) Dibromomethane             | 9.31  | 93   | 20624    | 20.620  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.50  | 83   | 48355    | 20.768  | ug/l   | 100      |
| 48) Methyl methacrylate        | 9.30  | 41   | 26468    | 20.393  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.31  | 88   | 5816     | 423.759 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 162172   | 108.745 | ug/l   | 100      |
| 52) Toluene                    | 10.25 | 92   | 97360    | 21.045  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 52669    | 20.380  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.94  | 75   | 62699    | 20.607  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 10.65 | 97   | 31390    | 21.205  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.52 | 69   | 43725    | 20.224  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.80 | 76   | 54420    | 20.808  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.79  | 63   | 117275   | 105.561 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.84 | 43   | 109111   | 103.865 | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.99 | 129  | 32791    | 21.169  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.10 | 107  | 29055    | 20.970  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.72 | 164  | 33991    | 22.177  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.52 | 112  | 100113   | 20.703  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.60 | 131  | 32278    | 19.952  | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.60 | 91   | 186481   | 20.763  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.71 | 106  | 137933   | 41.538  | ug/l   | 99       |
| 69) o-Xylene                   | 12.03 | 106  | 64849    | 20.587  | ug/l   | 100      |
| 70) Styrene                    | 12.05 | 104  | 110899   | 20.317  | ug/l   | 98       |
| 71) Bromoform                  | 12.21 | 173  | 18022    | 20.339  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.33 | 105  | 176132   | 20.372  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.15 | 43   | 54363    | 19.936  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.59 | 83   | 38027    | 20.439  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 27119m   | 20.801  | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 36966    | 20.029  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.68 | 91   | 219220   | 20.432  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.77 | 91   | 120014   | 20.372  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.82 | 105  | 146993   | 20.607  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.39 | 75   | 13566    | 20.159  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 126997   | 20.458  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.08 | 119  | 123589   | 20.757  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.13 | 105  | 147761   | 20.762  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.26 | 105  | 182006   | 20.638  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.38 | 119  | 158155   | 20.883  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.38 | 146  | 74986    | 20.768  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.45 | 146  | 73914    | 20.343  | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.70 | 91   | 163625   | 20.736  | ug/l   | 100      |
| 90) Hexachloroethane           | 13.97 | 117  | 29552    | 20.708  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.75 | 146  | 68693    | 20.601  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 5920     | 19.864  | ug/l   | 96       |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.02 | 180  | 44944    | 20.912 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.12 | 225  | 21970    | 20.710 | ug/l  | 97       |
| 95) Naphthalene            | 15.25 | 128  | 103877   | 20.350 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.44 | 180  | 38979    | 20.000 | ug/l  | 97       |

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

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