

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY070120\  
 Data File : VY003073.D  
 Acq On : 01 Jul 2020 21:02  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 7/2/2020 5:01:39 PM

Quant Time: Jul 02 04:16:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y062920S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 30 04:11:35 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene         | 7.80  | 168  | 406902   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.69  | 114  | 612383   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 11.49 | 117  | 563803   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.42 | 152  | 291875   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds   |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4     | 8.15  | 65   | 210395   | 52.06   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 104.12% |          |
| 35) Dibromofluoromethane      | 7.73  | 113  | 201174   | 52.66   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 105.32% |          |
| 50) Toluene-d8                | 10.18 | 98   | 727261   | 51.10   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 102.20% |          |
| 62) 4-Bromofluorobenzene      | 12.48 | 95   | 257572   | 51.42   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 102.84% |          |
| Target Compounds              |       |      |          |         |         |          |
|                               |       |      |          |         | Qvalue  |          |
| 2) Dichlorodifluoromethane    | 1.91  | 85   | 151246   | 49.080  | ug/l    | 100      |
| 3) Chloromethane              | 2.12  | 50   | 208690   | 46.246  | ug/l    | 99       |
| 4) Vinyl Chloride             | 2.26  | 62   | 226668   | 51.495  | ug/l    | 97       |
| 5) Bromomethane               | 2.65  | 94   | 178315   | 59.664  | ug/l    | 97       |
| 6) Chloroethane               | 2.80  | 64   | 151687   | 54.170  | ug/l    | 98       |
| 7) Trichlorofluoromethane     | 3.13  | 101  | 320503   | 51.588  | ug/l    | 100      |
| 8) Diethyl Ether              | 3.54  | 74   | 116657   | 54.772  | ug/l    | 94       |
| 9) 1,1,2-Trichlorotrifluoroet | 3.91  | 101  | 196793   | 53.050  | ug/l    | 99       |
| 10) Methyl Iodide             | 4.10  | 142  | 240670   | 52.321  | ug/l    | 99       |
| 11) Tert butyl alcohol        | 4.99  | 59   | 100010   | 242.825 | ug/l    | 100      |
| 12) 1,1-Dichloroethene        | 3.88  | 96   | 185476   | 52.549  | ug/l    | 91       |
| 13) Acrolein                  | 3.74  | 56   | 85013    | 229.820 | ug/l    | 99       |
| 14) Allyl chloride            | 4.49  | 41   | 287009   | 46.574  | ug/l    | 97       |
| 15) Acrylonitrile             | 5.18  | 53   | 286265   | 260.790 | ug/l    | 100      |
| 16) Acetone                   | 3.96  | 43   | 217691   | 228.392 | ug/l    | 93       |
| 17) Carbon Disulfide          | 4.20  | 76   | 562153   | 49.849  | ug/l    | 100      |
| 18) Methyl Acetate            | 4.49  | 43   | 128747   | 50.137  | ug/l    | 97       |
| 19) Methyl tert-butyl Ether   | 5.23  | 73   | 567585   | 55.168  | ug/l    | 97       |
| 20) Methylene Chloride        | 4.72  | 84   | 235827   | 56.328  | ug/l    | 93       |
| 21) trans-1,2-Dichloroethene  | 5.23  | 96   | 212302   | 53.176  | ug/l    | 94       |
| 22) Diisopropyl ether         | 6.13  | 45   | 671610   | 50.848  | ug/l    | 99       |
| 23) Vinyl Acetate             | 6.07  | 43   | 2281243  | 258.336 | ug/l    | 98       |
| 24) 1,1-Dichloroethane        | 6.03  | 63   | 378938   | 52.521  | ug/l    | 100      |
| 25) 2-Butanone                | 7.00  | 43   | 385923   | 254.890 | ug/l    | 97       |
| 26) 2,2-Dichloropropane       | 6.99  | 77   | 310105   | 47.306  | ug/l    | 100      |
| 27) cis-1,2-Dichloroethene    | 6.99  | 96   | 241805   | 53.998  | ug/l    | 96       |
| 28) Bromochloromethane        | 7.34  | 49   | 163912   | 51.058  | ug/l    | 89       |
| 29) Tetrahydrofuran           | 7.35  | 42   | 262284   | 260.496 | ug/l    | 95       |
| 30) Chloroform                | 7.51  | 83   | 381389   | 53.357  | ug/l    | 97       |
| 31) Cyclohexane               | 7.78  | 56   | 329769   | 46.395  | ug/l    | 98       |
| 32) 1,1,1-Trichloroethane     | 7.71  | 97   | 335705   | 51.453  | ug/l    | 100      |
| 36) 1,1-Dichloropropene       | 7.93  | 75   | 293520   | 49.760  | ug/l    | 98       |
| 37) Ethyl Acetate             | 7.08  | 43   | 180331   | 50.846  | ug/l    | 97       |
| 38) Carbon Tetrachloride      | 7.91  | 117  | 312012   | 50.839  | ug/l    | 98       |

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 Quant Title : SW846 8260  
 QLast Update : Tue Jun 30 04:11:35 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 39) Methylcyclohexane          | 9.19  | 83   | 364349   | 49.818   | ug/l  | 99       |
| 40) Benzene                    | 8.17  | 78   | 840774   | 52.063   | ug/l  | 99       |
| 41) Methacrylonitrile          | 7.33  | 41   | 103060m  | 54.398   | ug/l  |          |
| 42) 1,2-Dichloroethane         | 8.24  | 62   | 270227   | 52.894   | ug/l  | 99       |
| 43) Isopropyl Acetate          | 8.28  | 43   | 344575   | 51.106   | ug/l  | 97       |
| 44) Trichloroethene            | 8.94  | 130  | 247807   | 52.794   | ug/l  | 98       |
| 45) 1,2-Dichloropropane        | 9.22  | 63   | 221117   | 50.894   | ug/l  | 98       |
| 46) Dibromomethane             | 9.31  | 93   | 131534   | 54.206   | ug/l  | 98       |
| 47) Bromodichloromethane       | 9.50  | 83   | 314053   | 52.855   | ug/l  | 99       |
| 48) Methyl methacrylate        | 9.30  | 41   | 156525   | 51.003   | ug/l  | 95       |
| 49) 1,4-Dioxane                | 9.31  | 88   | 32704    | 1104.069 | ug/l  | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.07 | 43   | 937289   | 268.964  | ug/l  | 97       |
| 52) Toluene                    | 10.25 | 92   | 526771   | 51.817   | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 325925   | 52.319   | ug/l  | 97       |
| 54) cis-1,3-Dichloropropene    | 9.93  | 75   | 362056   | 50.818   | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 10.64 | 97   | 184728   | 54.783   | ug/l  | 99       |
| 56) Ethyl methacrylate         | 10.51 | 69   | 268162   | 54.939   | ug/l  | 97       |
| 57) 1,3-Dichloropropane        | 10.79 | 76   | 314704   | 53.164   | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.78  | 63   | 675217   | 269.722  | ug/l  | 98       |
| 59) 2-Hexanone                 | 10.83 | 43   | 648611   | 266.287  | ug/l  | 99       |
| 60) Dibromochloromethane       | 10.99 | 129  | 234614   | 54.369   | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 11.09 | 107  | 179575   | 54.019   | ug/l  | 100      |
| 64) Tetrachloroethene          | 10.72 | 164  | 252944   | 53.009   | ug/l  | 97       |
| 65) Chlorobenzene              | 11.52 | 112  | 583282   | 52.467   | ug/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.59 | 131  | 227954   | 52.519   | ug/l  | 98       |
| 67) Ethyl Benzene              | 11.59 | 91   | 1045922  | 51.427   | ug/l  | 99       |
| 68) m/p-Xylenes                | 11.70 | 106  | 781932   | 103.301  | ug/l  | 98       |
| 69) o-Xylene                   | 12.03 | 106  | 373627   | 52.381   | ug/l  | 97       |
| 70) Styrene                    | 12.05 | 104  | 654727   | 53.729   | ug/l  | 98       |
| 71) Bromoform                  | 12.21 | 173  | 160984   | 55.624   | ug/l  | 99       |
| 73) Isopropylbenzene           | 12.33 | 105  | 1001715  | 52.440   | ug/l  | 100      |
| 74) N-amyl acetate             | 12.14 | 43   | 327052   | 52.593   | ug/l  | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 213905   | 55.490   | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 165023m  | 57.128   | ug/l  |          |
| 77) Bromobenzene               | 12.61 | 156  | 260760   | 53.241   | ug/l  | 100      |
| 78) n-propylbenzene            | 12.67 | 91   | 1179800  | 51.356   | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 668663   | 52.146   | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 835789   | 52.141   | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 78976    | 53.192   | ug/l  | 96       |
| 82) 4-Chlorotoluene            | 12.85 | 91   | 695194   | 52.072   | ug/l  | 99       |
| 83) tert-Butylbenzene          | 13.08 | 119  | 730326   | 51.888   | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 846114   | 52.384   | ug/l  | 100      |
| 85) sec-Butylbenzene           | 13.25 | 105  | 1000342  | 51.563   | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 13.37 | 119  | 924813   | 51.446   | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 13.36 | 146  | 485398   | 53.084   | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene        | 13.44 | 146  | 479466   | 53.176   | ug/l  | 100      |
| 89) n-Butylbenzene             | 13.70 | 91   | 865619   | 50.328   | ug/l  | 99       |
| 90) Hexachloroethane           | 13.96 | 117  | 187453   | 52.513   | ug/l  | 98       |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 441805   | 53.852   | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 38723    | 56.745   | ug/l  | 93       |

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Sample : VSTDCCC050  
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ALS Vial : 24 Sample Multiplier: 1

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Quant Title : SW846 8260  
QLast Update : Tue Jun 30 04:11:35 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.01 | 180  | 319678   | 52.440 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.11 | 225  | 189383   | 49.252 | ug/l  | 98       |
| 95) Naphthalene            | 15.23 | 128  | 631405   | 56.706 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.42 | 180  | 287508   | 54.314 | ug/l  | 100      |

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

