

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY060220\  
 Data File : VY002813.D  
 Acq On : 02 Jun 2020 11:37  
 Operator : SY/MD  
 Sample : VY0602SBS01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0602SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 6/3/2020 11:31:34 AM

Quant Time: Jun 03 05:29:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y052720S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 27 13:13:33 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 351657   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 516009   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 475777   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 254492   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.14   | 65  | 138541   | 45.37 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.74% |      |
| 35) Dibromofluoromethane  | 7.72   | 113 | 146299   | 48.38 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.76% |      |
| 50) Toluene-d8            | 10.18  | 98  | 575931   | 47.10 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.20% |      |
| 62) 4-Bromofluorobenzene  | 12.48  | 95  | 198894   | 47.60 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.20% |      |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.91 | 85  | 48776  | 20.158 | ug/l   | 100    |
| 3) Chloromethane              | 2.12 | 50  | 54721  | 20.446 | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.26 | 62  | 58885  | 20.816 | ug/l   | 100    |
| 5) Bromomethane               | 2.65 | 94  | 41905  | 19.767 | ug/l   | 99     |
| 6) Chloroethane               | 2.80 | 64  | 36656  | 19.989 | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 3.13 | 101 | 98359  | 19.632 | ug/l   | 100    |
| 8) Diethyl Ether              | 3.54 | 74  | 34854  | 17.816 | ug/l   | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.90 | 101 | 60118  | 20.209 | ug/l   | 98     |
| 10) Methyl Iodide             | 4.10 | 142 | 77941  | 18.725 | ug/l   | 98     |
| 11) Tert butyl alcohol        | 4.97 | 59  | 34162  | 96.243 | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 3.88 | 96  | 58845  | 19.670 | ug/l   | 95     |
| 13) Acrolein                  | 3.74 | 56  | 33914  | 94.780 | ug/l   | 98     |
| 14) Allyl chloride            | 4.48 | 41  | 86881  | 20.249 | ug/l   | 99     |
| 15) Acrylonitrile             | 5.18 | 53  | 86517  | 98.028 | ug/l   | 99     |
| 16) Acetone                   | 3.96 | 43  | 68075  | 95.080 | ug/l   | 97     |
| 17) Carbon Disulfide          | 4.20 | 76  | 174714 | 19.326 | ug/l   | 98     |
| 18) Methyl Acetate            | 4.48 | 43  | 39917  | 21.670 | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 5.22 | 73  | 160159 | 19.392 | ug/l   | 100    |
| 20) Methylene Chloride        | 4.72 | 84  | 69247  | 19.791 | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 5.22 | 96  | 65827  | 19.566 | ug/l   | 99     |
| 22) Diisopropyl ether         | 6.13 | 45  | 178777 | 20.051 | ug/l   | 96     |
| 23) Vinyl Acetate             | 6.07 | 43  | 581855 | 98.842 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 6.03 | 63  | 103544 | 19.852 | ug/l   | 99     |
| 25) 2-Butanone                | 6.99 | 43  | 107516 | 96.385 | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 6.99 | 77  | 95932  | 19.178 | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 6.99 | 96  | 73047  | 19.395 | ug/l   | 100    |
| 28) Bromochloromethane        | 7.34 | 49  | 44813  | 20.929 | ug/l   | 99     |
| 29) Tetrahydrofuran           | 7.36 | 42  | 72089  | 99.353 | ug/l   | 98     |
| 30) Chloroform                | 7.52 | 83  | 108954 | 19.686 | ug/l   | 96     |
| 31) Cyclohexane               | 7.79 | 56  | 100490 | 19.405 | ug/l # | 93     |
| 32) 1,1,1-Trichloroethane     | 7.71 | 97  | 99034  | 19.202 | ug/l   | 100    |
| 36) 1,1-Dichloropropene       | 7.92 | 75  | 84893  | 19.530 | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.08 | 43  | 46359  | 19.603 | ug/l   | 96     |
| 38) Carbon Tetrachloride      | 7.90 | 117 | 92135  | 19.080 | ug/l   | 96     |

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Quant Time: Jun 03 05:29:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y052720S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 27 13:13:33 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.18  | 83   | 112009   | 19.550  | ug/l   | 99       |
| 40) Benzene                    | 8.16  | 78   | 250896   | 19.535  | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.33  | 41   | 24178m   | 19.030  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.24  | 62   | 69536    | 19.318  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.28  | 43   | 88436    | 19.733  | ug/l   | 99       |
| 44) Trichloroethene            | 8.94  | 130  | 78572    | 19.367  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.22  | 63   | 60445    | 19.625  | ug/l   | 99       |
| 46) Dibromomethane             | 9.31  | 93   | 35372    | 19.337  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.50  | 83   | 84771    | 19.658  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.30  | 41   | 39906    | 19.725  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.30  | 88   | 10780    | 383.809 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.07 | 43   | 232958   | 98.165  | ug/l   | 100      |
| 52) Toluene                    | 10.24 | 92   | 163881   | 19.505  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 91971    | 19.526  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.93  | 75   | 103955   | 19.478  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.64 | 97   | 54591    | 19.494  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.51 | 69   | 73047    | 19.474  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.79 | 76   | 90783    | 19.709  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.78  | 63   | 182210   | 99.415  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.83 | 43   | 165808   | 98.473  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.99 | 129  | 68611    | 19.325  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.09 | 107  | 53348    | 19.311  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.72 | 164  | 81214    | 18.782  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.52 | 112  | 183649   | 19.529  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.59 | 131  | 68425    | 19.320  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.60 | 91   | 318614   | 19.544  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.70 | 106  | 246254   | 38.959  | ug/l   | 100      |
| 69) o-Xylene                   | 12.03 | 106  | 116745   | 19.565  | ug/l   | 99       |
| 70) Styrene                    | 12.05 | 104  | 199985   | 19.333  | ug/l   | 99       |
| 71) Bromoform                  | 12.21 | 173  | 46815    | 19.755  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.33 | 105  | 318718   | 19.543  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.14 | 43   | 83237    | 19.891  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 58408    | 20.412  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 46764m   | 20.393  | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 81320    | 19.149  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.67 | 91   | 371339   | 19.712  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 205039   | 19.403  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 266512   | 19.572  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 23965    | 19.689  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 217313   | 19.628  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.08 | 119  | 235512   | 19.389  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 267647   | 19.547  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.25 | 105  | 326083   | 19.634  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.37 | 119  | 308751   | 19.979  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.37 | 146  | 157330   | 19.559  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.44 | 146  | 157927   | 19.626  | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.70 | 91   | 279109   | 19.893  | ug/l   | 100      |
| 90) Hexachloroethane           | 13.96 | 117  | 57388    | 19.836  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 143052   | 19.609  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 11026    | 20.028  | ug/l   | 96       |

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Quant Title : SW846 8260  
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Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.01 | 180  | 107290   | 19.512 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.11 | 225  | 61785    | 19.811 | ug/l  | 100      |
| 95) Naphthalene            | 15.23 | 128  | 210916   | 19.131 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.42 | 180  | 94296    | 19.204 | ug/l  | 99       |

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

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