

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY032421\  
 Data File : VY004179.D  
 Acq On : 24 Mar 2021 11:41  
 Operator : SY/MD  
 Sample : VY0324SBS01  
 Misc : 5.00g/5mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0324SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 3/25/2021 4:57:29 PM

Quant Time: Mar 25 01:17:40 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030821S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 08 12:28:55 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|--------|--------|----------|
| -----                        |                |      |            |        |        |          |
| Internal Standards           |                |      |            |        |        |          |
| 1) Pentafluorobenzene        | 7.801          | 168  | 199136     | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 315185     | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 284143     | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 146822     | 50.00  | ug/l   | 0.00     |
|                              |                |      |            |        |        |          |
| System Monitoring Compounds  |                |      |            |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.149          | 65   | 91042      | 46.33  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 92.66% |        |          |
| 35) Dibromofluoromethane     | 7.728          | 113  | 85103      | 47.88  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 95.76% |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 321673     | 46.16  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 92.32% |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 119878     | 46.58  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 93.16% |        |          |
|                              |                |      |            |        |        |          |
| Target Compounds             |                |      |            |        |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.912          | 85   | 36869      | 24.19  | ug/l   | 97       |
| 3) Chloromethane             | 2.119          | 50   | 43668      | 20.47  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.259          | 62   | 49088      | 20.40  | ug/l   | 99       |
| 5) Bromomethane              | 2.650          | 94   | 35707      | 23.22  | ug/l   | 93       |
| 6) Chloroethane              | 2.796          | 64   | 30621      | 20.89  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 67881      | 21.22  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.540          | 74   | 21527      | 21.00  | ug/l   | 83       |
| 9) 1,1,2-Trichlorotrifluo... | 3.905          | 101  | 37211      | 20.80  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.107          | 142  | 37504      | 20.51  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.972          | 59   | 17133      | 96.43  | ug/l   | 96       |
| 12) 1,1-Dichloroethene       | 3.881          | 96   | 35823      | 20.46  | ug/l   | 89       |
| 13) Acrolein                 | 3.741          | 56   | 12115      | 68.74  | ug/l   | 95       |
| 14) Allyl chloride           | 4.491          | 41   | 53353      | 18.42  | ug/l # | 88       |
| 15) Acrylonitrile            | 5.180          | 53   | 50407      | 98.93  | ug/l   | 98       |
| 16) Acetone                  | 3.960          | 43   | 42678      | 89.97  | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.204          | 76   | 99625      | 19.35  | ug/l   | 96       |
| 18) Methyl Acetate           | 4.497          | 43   | 21813      | 18.61  | ug/l   | 91       |
| 19) Methyl tert-butyl Ether  | 5.235          | 73   | 103664     | 20.79  | ug/l   | 95       |
| 20) Methylene Chloride       | 4.729          | 84   | 42864      | 19.39  | ug/l   | 91       |
| 21) trans-1,2-Dichloroethene | 5.235          | 96   | 40506      | 20.59  | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.137          | 45   | 117516     | 19.23  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.076          | 43   | 384603     | 95.58  | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 6.033          | 63   | 68818      | 20.28  | ug/l   | 99       |
| 25) 2-Butanone               | 6.996          | 43   | 64466      | 94.28  | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 6.996          | 77   | 64339      | 19.85  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.996          | 96   | 46696      | 20.85  | ug/l   | 91       |
| 28) Bromochloromethane       | 7.344          | 49   | 30732      | 20.74  | ug/l   | 86       |
| 29) Tetrahydrofuran          | 7.356          | 42   | 41707      | 93.89  | ug/l   | 91       |
| 30) Chloroform               | 7.521          | 83   | 73834      | 21.00  | ug/l   | 98       |
| 31) Cyclohexane              | 7.795          | 56   | 65723      | 19.07  | ug/l # | 83       |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 67540      | 20.70  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.929          | 75   | 55838      | 20.17  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.088          | 43   | 28146      | 18.87  | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 7.911          | 117  | 62219      | 21.18  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.185          | 83   | 70897      | 19.82  | ug/l   | 94       |
| 40) Benzene                  | 8.167          | 78   | 161048     | 20.65  | ug/l   | 97       |

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 ALS Vial : 5 Sample Multiplier: 1

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Quant Time: Mar 25 01:17:40 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030821S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 08 12:28:55 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.326  | 41   | 17100m   | 18.50  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 50688    | 21.26  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.283  | 43   | 56341    | 18.82  | ug/l   | 95       |
| 44) Trichloroethene           | 8.947  | 130  | 49631    | 21.97  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 39652    | 20.36  | ug/l   | 100      |
| 46) Dibromomethane            | 9.307  | 93   | 23303    | 20.93  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.502  | 83   | 56997    | 20.51  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.301  | 41   | 26213    | 18.43  | ug/l   | 91       |
| 49) 1,4-Dioxane               | 9.313  | 88   | 5759     | 406.31 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 144178   | 95.12  | ug/l   | 97       |
| 52) Toluene                   | 10.246 | 92   | 104313   | 20.65  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 58018    | 19.79  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 66379    | 20.20  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 33359    | 21.31  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 41747    | 19.07  | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 55865    | 20.83  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.789  | 63   | 101638   | 108.25 | ug/l   | 93       |
| 59) 2-Hexanone                | 10.837 | 43   | 100244   | 94.13  | ug/l   | 98       |
| 60) Dibromochloromethane      | 10.990 | 129  | 41157    | 20.94  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 32330    | 21.20  | ug/l   | 96       |
| 64) Tetrachloroethene         | 10.721 | 164  | 56044    | 23.56  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.520 | 112  | 115105   | 21.14  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 43261    | 21.24  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.593 | 91   | 205145   | 20.52  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.703 | 106  | 159047   | 41.72  | ug/l   | 93       |
| 69) o-Xylene                  | 12.032 | 106  | 75318    | 20.90  | ug/l   | 93       |
| 70) Styrene                   | 12.044 | 104  | 126118   | 20.43  | ug/l   | 98       |
| 71) Bromoform                 | 12.209 | 173  | 25007    | 20.52  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 203591   | 19.95  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.148 | 43   | 51666    | 17.68  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 32409    | 18.28  | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 26160m   | 18.58  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 49279    | 20.90  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.672 | 91   | 238715   | 19.86  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 133697   | 19.81  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 173259   | 20.02  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 12888    | 18.07  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 141222   | 19.77  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 151508   | 20.35  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 174650   | 20.15  | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.257 | 105  | 208811   | 20.34  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 195611   | 20.55  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 96890    | 21.29  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 95262    | 20.97  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.696 | 91   | 180111   | 19.88  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.965 | 117  | 33944    | 19.84  | ug/l   | 85       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 85999    | 21.31  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 6267     | 18.71  | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 59129    | 21.60  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 32264    | 21.02  | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 115389   | 21.28  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 50132    | 21.78  | ug/l   | 99       |

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ALS Vial : 5 Sample Multiplier: 1

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3/25/2021 4:57:29 PM

Quant Time: Mar 25 01:17:40 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030821S.M  
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QLast Update : Mon Mar 08 12:28:55 2021  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

