

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY040121\  
 Data File : VY004238.D  
 Acq On : 01 Apr 2021 11:51  
 Operator : SY/MD  
 Sample : VY0401SBS01  
 Misc : 5.00g/5mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0401SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 4/2/2021 6:40:16 PM

Quant Time: Apr 02 02:07:55 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y032921S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 30 06:38:14 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|--------|--------|----------|
| -----                        |                |      |            |        |        |          |
| Internal Standards           |                |      |            |        |        |          |
| 1) Pentafluorobenzene        | 7.801          | 168  | 240813     | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 383129     | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.495         | 117  | 338311     | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 157836     | 50.00  | ug/l   | 0.00     |
|                              |                |      |            |        |        |          |
| System Monitoring Compounds  |                |      |            |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.154          | 65   | 110927     | 47.92  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 95.84% |        |          |
| 35) Dibromofluoromethane     | 7.728          | 113  | 98381      | 46.09  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 92.18% |        |          |
| 50) Toluene-d8               | 10.184         | 98   | 378481     | 47.14  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 94.28% |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 129227     | 46.96  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 93.92% |        |          |
|                              |                |      |            |        |        |          |
| Target Compounds             |                |      |            |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.912          | 85   | 40999      | 19.66  | ug/l   | 98       |
| 3) Chloromethane             | 2.119          | 50   | 59303      | 21.07  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.259          | 62   | 79294      | 25.27  | ug/l   | 100      |
| 5) Bromomethane              | 2.655          | 94   | 28969      | 16.78  | ug/l   | 95       |
| 6) Chloroethane              | 2.802          | 64   | 38187      | 18.77  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 79010      | 19.38  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.539          | 74   | 28577      | 21.84  | ug/l   | 84       |
| 9) 1,1,2-Trichlorotrifluo... | 3.905          | 101  | 46474      | 20.93  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.106          | 142  | 49305      | 19.22  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.978          | 59   | 24876      | 132.05 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 3.887          | 96   | 43753      | 20.09  | ug/l   | 99       |
| 13) Acrolein                 | 3.747          | 56   | 23706      | 146.61 | ug/l   | 98       |
| 14) Allyl chloride           | 4.490          | 41   | 82416      | 23.75  | ug/l   | 94       |
| 15) Acrylonitrile            | 5.179          | 53   | 77172      | 123.92 | ug/l   | 98       |
| 16) Acetone                  | 3.960          | 43   | 58411      | 121.11 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.204          | 76   | 117315     | 20.48  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.490          | 43   | 36745      | 23.80  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.234          | 73   | 142220     | 22.10  | ug/l   | 98       |
| 20) Methylene Chloride       | 4.728          | 84   | 53187      | 21.04  | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.234          | 96   | 48828      | 19.97  | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.130          | 45   | 181660     | 23.83  | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.075          | 43   | 618705     | 120.67 | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 6.033          | 63   | 91769      | 22.10  | ug/l   | 99       |
| 25) 2-Butanone               | 6.996          | 43   | 102669     | 127.43 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 6.996          | 77   | 83292      | 21.43  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.002          | 96   | 57432      | 20.74  | ug/l   | 97       |
| 28) Bromochloromethane       | 7.343          | 49   | 43068      | 25.51  | ug/l   | 91       |
| 29) Tetrahydrofuran          | 7.362          | 42   | 72984      | 128.57 | ug/l   | 94       |
| 30) Chloroform               | 7.520          | 83   | 90238      | 20.42  | ug/l   | 98       |
| 31) Cyclohexane              | 7.795          | 56   | 89481      | 21.87  | ug/l # | 95       |
| 32) 1,1,1-Trichloroethane    | 7.715          | 97   | 80140      | 19.82  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.929          | 75   | 70844      | 20.26  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.081          | 43   | 48460      | 23.62  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.910          | 117  | 63421      | 20.85  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.191          | 83   | 89038      | 20.56  | ug/l   | 98       |
| 40) Benzene                  | 8.167          | 78   | 204479     | 20.63  | ug/l   | 98       |

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 Sample : VY0401SBSD01  
 Misc : 5.00g/5mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0401SBSD01

Manual Integrations  
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MMDadoda  
 4/2/2021 6:40:16 PM

Quant Time: Apr 02 02:07:55 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y032921S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 30 06:38:14 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.325  | 41   | 24864m   | 21.87  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 63377    | 20.34  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.282  | 43   | 94486    | 24.32  | ug/l   | 96       |
| 44) Trichloroethene           | 8.947  | 130  | 57363    | 18.17  | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.221  | 63   | 54421    | 22.21  | ug/l   | 98       |
| 46) Dibromomethane            | 9.313  | 93   | 29092    | 20.19  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.502  | 83   | 70573    | 20.53  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.300  | 41   | 42553    | 24.12  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.307  | 88   | 7193     | 340.15 | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 240652   | 121.59 | ug/l   | 98       |
| 52) Toluene                   | 10.245 | 92   | 130329   | 20.45  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 78149    | 21.32  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.934  | 75   | 87635    | 21.40  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 41059    | 20.80  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 60198    | 22.23  | ug/l   | 94       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 72044    | 21.15  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.788  | 63   | 139829   | 120.69 | ug/l   | 96       |
| 59) 2-Hexanone                | 10.837 | 43   | 164455   | 120.86 | ug/l   | 98       |
| 60) Dibromochloromethane      | 10.989 | 129  | 47784    | 20.19  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 39390    | 20.22  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.721 | 164  | 58007    | 17.43  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.520 | 112  | 133573   | 19.80  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 48353    | 20.01  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.599 | 91   | 250042   | 20.41  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.702 | 106  | 186403   | 39.62  | ug/l   | 98       |
| 69) o-Xylene                  | 12.032 | 106  | 87522    | 19.88  | ug/l   | 98       |
| 70) Styrene                   | 12.050 | 104  | 145169   | 19.82  | ug/l   | 100      |
| 71) Bromoform                 | 12.215 | 173  | 28274    | 20.54  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.330 | 105  | 238103   | 20.65  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.148 | 43   | 84099    | 24.95  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.586 | 83   | 46913    | 21.98  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.635 | 75   | 35488m   | 24.76  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 53615    | 19.86  | ug/l   | 93       |
| 78) n-propylbenzene           | 12.678 | 91   | 281466   | 21.10  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.763 | 91   | 153625   | 20.96  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.818 | 105  | 197411   | 20.99  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.385 | 75   | 18475    | 23.76  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.861 | 91   | 159449   | 20.67  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.080 | 119  | 167198   | 20.57  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 194390   | 20.60  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.257 | 105  | 232663   | 20.79  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 210436   | 20.22  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 100827   | 20.02  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.452 | 146  | 101057   | 20.31  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.702 | 91   | 200376   | 20.93  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.964 | 117  | 23590    | 29.09  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.745 | 146  | 89830    | 19.87  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 8033     | 20.17  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.013 | 180  | 63146    | 19.65  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 31937    | 18.69  | ug/l   | 99       |
| 95) Naphthalene               | 15.238 | 128  | 141124   | 20.70  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.427 | 180  | 56921    | 19.39  | ug/l   | 98       |

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ALS Vial : 5 Sample Multiplier: 1

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Quant Time: Apr 02 02:07:55 2021  
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Quant Title : SW846 8260  
QLast Update : Tue Mar 30 06:38:14 2021  
Response via : Initial Calibration

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

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

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