

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY111623\  
 Data File : VY016382.D  
 Acq On : 16 Nov 2023 12:06  
 Operator : SY/MD  
 Sample : VY1116SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1116SBS01

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 11/17/2023  
 Supervised By :Semsettin Yesilyurt 11/17/2023

Quant Time: Nov 17 04:03:54 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110823S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 09 00:45:52 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 161338     | 50.000   | ug/l   | -0.01    |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 258316     | 50.000   | ug/l   | -0.01    |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 224436     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 106503     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 71893      | 48.755   | ug/l   | -0.01    |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 97.520%  |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 76375      | 52.048   | ug/l   | -0.01    |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 104.100% |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 291553     | 48.996   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 98.000%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 95908      | 49.625   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 99.240%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 30681      | 19.421   | ug/l   | 96       |
| 3) Chloromethane             | 2.113          | 50   | 31836      | 17.207   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.247          | 62   | 34478      | 17.330   | ug/l   | 96       |
| 5) Bromomethane              | 2.644          | 94   | 23237      | 17.773   | ug/l   | 97       |
| 6) Chloroethane              | 2.790          | 64   | 22853      | 18.002   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 57707      | 19.937   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.528          | 74   | 16822      | 19.446   | ug/l   | 84       |
| 9) 1,1,2-Trichlorotrifluo... | 3.893          | 101  | 33439      | 19.181   | ug/l   | 95       |
| 10) Methyl Iodide            | 4.088          | 142  | 34244      | 18.187   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.966          | 59   | 11538      | 99.922   | ug/l # | 80       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 30712      | 18.837   | ug/l   | 86       |
| 13) Acrolein                 | 3.729          | 56   | 13271      | 95.285   | ug/l   | 95       |
| 14) Allyl chloride           | 4.479          | 41   | 42722      | 18.465   | ug/l # | 92       |
| 15) Acrylonitrile            | 5.161          | 53   | 34375      | 100.129  | ug/l   | 98       |
| 16) Acetone                  | 3.942          | 43   | 33348      | 136.722  | ug/l # | 85       |
| 17) Carbon Disulfide         | 4.192          | 76   | 79039      | 16.067   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.472          | 43   | 25862      | 19.954   | ug/l # | 89       |
| 19) Methyl tert-butyl Ether  | 5.222          | 73   | 77925      | 19.748   | ug/l   | 99       |
| 20) Methylene Chloride       | 4.716          | 84   | 41316      | 22.031   | ug/l # | 84       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 34886      | 18.584   | ug/l   | 89       |
| 22) Diisopropyl ether        | 6.119          | 45   | 96007      | 19.255   | ug/l # | 87       |
| 23) Vinyl Acetate            | 6.058          | 43   | 232685     | 96.310   | ug/l # | 92       |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 59659      | 19.395   | ug/l   | 97       |
| 25) 2-Butanone               | 6.984          | 43   | 48627      | 113.821  | ug/l # | 86       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 55644      | 19.876   | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 39376      | 19.464   | ug/l   | 91       |
| 28) Bromochloromethane       | 7.338          | 49   | 22435      | 19.707   | ug/l   | 86       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 27398      | 97.025   | ug/l # | 85       |
| 30) Chloroform               | 7.508          | 83   | 63705      | 19.897   | ug/l   | 97       |
| 31) Cyclohexane              | 7.789          | 56   | 51230      | 17.646   | ug/l # | 82       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 59193      | 20.168   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 47394      | 18.600   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.076          | 43   | 20022      | 19.448   | ug/l   | 95       |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 53709      | 20.310   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.185          | 83   | 57085      | 17.980   | ug/l   | 91       |
| 40) Benzene                  | 8.161          | 78   | 138380     | 19.330   | ug/l   | 99       |

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 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
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Manual Integrations  
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Quant Time: Nov 17 04:03:54 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110823S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 09 00:45:52 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.307  | 41   | 11563    | 22.275  | ug/l # | 86       |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 37738    | 20.346  | ug/l   | 93       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 38949    | 19.572  | ug/l # | 90       |
| 44) Trichloroethene           | 8.941  | 130  | 40150    | 19.515  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 34112    | 19.841  | ug/l   | 94       |
| 46) Dibromomethane            | 9.307  | 93   | 18686    | 20.057  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.502  | 83   | 48446    | 20.226  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.295  | 41   | 20945    | 19.044  | ug/l # | 83       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 4103     | 414.827 | ug/l # | 64       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 102465   | 101.822 | ug/l   | 90       |
| 52) Toluene                   | 10.246 | 92   | 88103    | 19.469  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 46250    | 19.919  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 54972    | 19.822  | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 26628    | 20.737  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 24336    | 20.077  | ug/l # | 82       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 43915    | 20.063  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 79863    | 97.166  | ug/l   | 92       |
| 59) 2-Hexanone                | 10.837 | 43   | 82006    | 109.557 | ug/l   | 87       |
| 60) Dibromochloromethane      | 10.990 | 129  | 33720    | 20.997  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 25259    | 20.647  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.721 | 164  | 40250    | 19.973  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.520 | 112  | 95080    | 19.828  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 36994    | 20.917  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.599 | 91   | 168836   | 19.592  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.709 | 106  | 129886   | 39.738  | ug/l   | 96       |
| 69) o-Xylene                  | 12.032 | 106  | 61542    | 20.279  | ug/l   | 96       |
| 70) Styrene                   | 12.050 | 104  | 87035    | 20.029  | ug/l   | 98       |
| 71) Bromoform                 | 12.215 | 173  | 19808    | 21.584  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.337 | 105  | 168957   | 19.591  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.148 | 43   | 31724    | 18.313  | ug/l # | 85       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 27787    | 20.079  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 20748m   | 20.308  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 38045    | 19.518  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.678 | 91   | 196032   | 19.234  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.764 | 91   | 109626   | 19.517  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.819 | 105  | 136031   | 19.563  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75   | 9192     | 19.529  | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 12.861 | 91   | 111873   | 19.275  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.081 | 119  | 120852   | 19.732  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 134766   | 19.683  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.257 | 105  | 173298   | 19.806  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 149328   | 19.820  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.373 | 146  | 74036    | 19.743  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.453 | 146  | 73524    | 20.062  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.703 | 91   | 136107   | 19.561  | ug/l   | 97       |
| 90) Hexachloroethane          | 13.965 | 117  | 27994    | 19.261  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 13.745 | 146  | 63252    | 19.684  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 4309     | 19.570  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.013 | 180  | 36996    | 19.724  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 22493    | 20.932  | ug/l   | 96       |
| 95) Naphthalene               | 15.245 | 128  | 65934    | 19.654  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.434 | 180  | 30542    | 19.687  | ug/l   | 99       |

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Instrument :  
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Quant Time: Nov 17 04:03:54 2023  
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Quant Title : SW846 8260  
QLast Update : Thu Nov 09 00:45:52 2023  
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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