

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY112224\  
 Data File : VY020403.D  
 Acq On : 22 Nov 2024 10:42  
 Operator : SY/MD  
 Sample : VY1122SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1122SBS01

Quant Time: Nov 22 23:56:58 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y111924S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 20 04:38:24 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/25/2024  
 Supervised By :Semsettin Yesilyurt 11/25/2024

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.713          | 168  | 198774     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.622          | 114  | 320677     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.420         | 117  | 261801     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.353         | 152  | 117571     | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.067          | 65   | 102649     | 44.949  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 89.900% |        |          |
| 35) Dibromofluoromethane     | 7.646          | 113  | 97162      | 47.252  | ug/l   | 0.01     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 94.500% |        |          |
| 50) Toluene-d8               | 10.109         | 98   | 385925     | 47.644  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 95.280% |        |          |
| 62) 4-Bromofluorobenzene     | 12.408         | 95   | 125715     | 48.279  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 29 - 146 |      | Recovery = | 96.560% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 43604      | 22.600  | ug/l   | 99       |
| 3) Chloromethane             | 2.074          | 50   | 42574      | 13.475  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.214          | 62   | 42526      | 16.066  | ug/l   | 98       |
| 5) Bromomethane              | 2.605          | 94   | 22682      | 17.158  | ug/l   | 90       |
| 6) Chloroethane              | 2.745          | 64   | 24770      | 16.042  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.068          | 101  | 73746      | 20.049  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.464          | 74   | 19382      | 16.701  | ug/l   | 93       |
| 9) 1,1,2-Trichlorotrifluo... | 3.830          | 101  | 41284      | 18.846  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.013          | 142  | 50665      | 17.267  | ug/l   | 94       |
| 11) Tert butyl alcohol       | 4.873          | 59   | 11609      | 64.299  | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 3.800          | 96   | 39783      | 18.347  | ug/l   | 97       |
| 13) Acrolein                 | 3.659          | 56   | 16184      | 114.448 | ug/l   | 99       |
| 14) Allyl chloride           | 4.397          | 41   | 70121      | 16.723  | ug/l   | 95       |
| 15) Acrylonitrile            | 5.068          | 53   | 39105      | 76.224  | ug/l   | 97       |
| 16) Acetone                  | 3.873          | 43   | 41592      | 75.972  | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.117          | 76   | 124416     | 17.031  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.391          | 43   | 17904      | 14.030  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.122          | 73   | 94098      | 16.705  | ug/l   | 96       |
| 20) Methylene Chloride       | 4.623          | 84   | 40888      | 17.636  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.129          | 96   | 43395      | 18.019  | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.025          | 45   | 136617     | 16.533  | ug/l   | 95       |
| 23) Vinyl Acetate            | 5.970          | 43   | 365545     | 79.159  | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 5.927          | 63   | 81714      | 17.517  | ug/l   | 98       |
| 25) 2-Butanone               | 6.903          | 43   | 56560      | 80.249  | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 6.897          | 77   | 75626      | 19.614  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.903          | 96   | 48553      | 18.304  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.256          | 49   | 29323      | 14.935  | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.275          | 42   | 31859      | 75.631  | ug/l   | 99       |
| 30) Chloroform               | 7.427          | 83   | 82638      | 18.345  | ug/l   | 96       |
| 31) Cyclohexane              | 7.707          | 56   | 77629      | 18.235  | ug/l # | 92       |
| 32) 1,1,1-Trichloroethane    | 7.628          | 97   | 79168      | 20.015  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.841          | 75   | 62369      | 19.858  | ug/l   | 100      |
| 37) Ethyl Acetate            | 6.988          | 43   | 23107      | 16.061  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.829          | 117  | 72043      | 21.970  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.116          | 83   | 78383      | 19.942  | ug/l   | 95       |
| 40) Benzene                  | 8.085          | 78   | 180723     | 19.635  | ug/l   | 96       |

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 Quant Title : SW846 8260  
 QLast Update : Wed Nov 20 04:38:24 2024  
 Response via : Initial Calibration

Manual Integrations  
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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.226  | 41   | 13695    | 16.729  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 8.165  | 62   | 47156    | 18.981  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.207  | 43   | 46122    | 16.485  | ug/l   | 96       |
| 44) Trichloroethene           | 8.872  | 130  | 43013    | 19.724  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.146  | 63   | 41211    | 18.767  | ug/l   | 96       |
| 46) Dibromomethane            | 9.238  | 93   | 20978    | 18.639  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.427  | 83   | 58836    | 18.937  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.225  | 41   | 21761    | 16.268  | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.238  | 88   | 3865     | 333.784 | ug/l # | 92       |
| 51) 4-Methyl-2-Pentanone      | 10.000 | 43   | 113931   | 80.240  | ug/l   | 99       |
| 52) Toluene                   | 10.176 | 92   | 110473   | 19.638  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 52048    | 17.715  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.859  | 75   | 65647    | 19.518  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 10.579 | 97   | 26614    | 17.814  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.445 | 69   | 37264    | 16.608  | ug/l   | 94       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 47651    | 17.747  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 88697    | 83.371  | ug/l   | 97       |
| 59) 2-Hexanone                | 10.768 | 43   | 79189    | 78.762  | ug/l   | 96       |
| 60) Dibromochloromethane      | 10.914 | 129  | 36136    | 18.765  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.024 | 107  | 23770    | 17.170  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.652 | 164  | 38067    | 20.171  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.445 | 112  | 114501   | 19.616  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131  | 39459    | 20.235  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.524 | 91   | 214949   | 19.960  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.634 | 106  | 156398   | 40.320  | ug/l   | 97       |
| 69) o-Xylene                  | 11.957 | 106  | 73430    | 19.959  | ug/l   | 98       |
| 70) Styrene                   | 11.975 | 104  | 121642   | 19.900  | ug/l   | 99       |
| 71) Bromoform                 | 12.140 | 173  | 20002    | 19.682  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.261 | 105  | 205283   | 20.612  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.079 | 43   | 38265    | 15.898  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83   | 27644    | 17.174  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.560 | 75   | 19887m   | 17.946  | ug/l   |          |
| 77) Bromobenzene              | 12.536 | 156  | 41112    | 19.702  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.603 | 91   | 244371   | 20.445  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.682 | 91   | 137105   | 19.950  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.743 | 105  | 164385   | 20.423  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75   | 9902     | 17.509  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 12.786 | 91   | 139875   | 19.721  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.005 | 119  | 148287   | 20.876  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.048 | 105  | 160803   | 20.151  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.182 | 105  | 211965   | 18.929  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.298 | 119  | 174122   | 20.111  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.292 | 146  | 81237    | 19.254  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.371 | 146  | 77940    | 19.334  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.627 | 91   | 161979   | 19.536  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.889 | 117  | 31741    | 18.994  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 13.664 | 146  | 67059    | 19.076  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.285 | 75   | 4328     | 16.386  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 14.932 | 180  | 37665    | 17.721  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.035 | 225  | 25367    | 19.552  | ug/l   | 99       |
| 95) Naphthalene               | 15.157 | 128  | 59368    | 16.218  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.340 | 180  | 30896    | 17.001  | ug/l   | 100      |

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APPROVED

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

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

