

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY051324\  
 Data File : VY018241.D  
 Acq On : 13 May 2024 15:02  
 Operator : SY/MD  
 Sample : P2403-01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 LOD-MDL-SOIL-01-QT2-2024

Quant Time: May 14 03:01:49 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y050724S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 14 03:01:34 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/14/2024  
 Supervised By :Semsettin Yesilyurt 05/14/2024

| Compound                     | R.T.     | QIon  | Response | Conc   | Units    | Dev(Min) |
|------------------------------|----------|-------|----------|--------|----------|----------|
| -----                        |          |       |          |        |          |          |
| Internal Standards           |          |       |          |        |          |          |
| 1) Pentafluorobenzene        | 7.783    | 168   | 208026   | 50.000 | ug/l     | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.685    | 114   | 353507   | 50.000 | ug/l     | 0.00     |
| 63) Chlorobenzene-d5         | 11.490   | 117   | 285362   | 50.000 | ug/l     | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428   | 152   | 120565   | 50.000 | ug/l     | 0.00     |
|                              |          |       |          |        |          |          |
| System Monitoring Compounds  |          |       |          |        |          |          |
| 33) 1,2-Dichloroethane-d4    | 8.137    | 65    | 81899    | 53.515 | ug/l     | 0.00     |
| Spiked Amount 50.000         | Range 50 | - 163 | Recovery | =      | 107.040% |          |
| 35) Dibromofluoromethane     | 7.716    | 113   | 98644    | 53.096 | ug/l     | 0.00     |
| Spiked Amount 50.000         | Range 54 | - 147 | Recovery | =      | 106.200% |          |
| 50) Toluene-d8               | 10.179   | 98    | 405654   | 55.409 | ug/l     | 0.00     |
| Spiked Amount 50.000         | Range 58 | - 134 | Recovery | =      | 110.820% |          |
| 62) 4-Bromofluorobenzene     | 12.477   | 95    | 116451   | 49.254 | ug/l     | 0.00     |
| Spiked Amount 50.000         | Range 30 | - 143 | Recovery | =      | 98.500%  |          |
|                              |          |       |          |        |          |          |
| Target Compounds             |          |       |          |        | Qvalue   |          |
| 2) Dichlorodifluoromethane   | 1.900    | 85    | 4493     | 2.723  | ug/l     | 78       |
| 3) Chloromethane             | 2.107    | 50    | 6904     | 3.126  | ug/l     | 95       |
| 4) Vinyl Chloride            | 2.241    | 62    | 8048     | 3.006  | ug/l     | 91       |
| 5) Bromomethane              | 2.650    | 94    | 5914     | 3.181  | ug/l     | 94       |
| 6) Chloroethane              | 2.784    | 64    | 5187     | 3.053  | ug/l     | 98       |
| 7) Trichlorofluoromethane    | 3.113    | 101   | 8486     | 2.706  | ug/l #   | 84       |
| 8) Diethyl Ether             | 3.528    | 74    | 2456     | 2.379  | ug/l     | 89       |
| 9) 1,1,2-Trichlorotrifluo... | 3.893    | 101   | 5126     | 2.565  | ug/l     | 99       |
| 10) Methyl Iodide            | 4.088    | 142   | 5405     | 2.316  | ug/l #   | 89       |
| 11) Tert butyl alcohol       | 4.930    | 59    | 3849m    | 25.162 | ug/l     |          |
| 12) 1,1-Dichloroethene       | 3.863    | 96    | 5112     | 2.541  | ug/l #   | 83       |
| 13) Acrolein                 | 3.717    | 56    | 3129     | 18.968 | ug/l     | 94       |
| 14) Allyl chloride           | 4.473    | 41    | 6298     | 2.461  | ug/l     | 89       |
| 15) Acrylonitrile            | 5.161    | 53    | 4168m    | 10.500 | ug/l     |          |
| 16) Acetone                  | 3.942    | 43    | 4405     | 14.424 | ug/l #   | 79       |
| 17) Carbon Disulfide         | 4.186    | 76    | 15943    | 2.911  | ug/l     | 98       |
| 18) Methyl Acetate           | 4.479    | 43    | 2464m    | 2.832  | ug/l     |          |
| 19) Methyl tert-butyl Ether  | 5.204    | 73    | 9349     | 2.086  | ug/l     | 96       |
| 20) Methylene Chloride       | 4.704    | 84    | 23588    | 10.927 | ug/l     | 91       |
| 21) trans-1,2-Dichloroethene | 5.210    | 96    | 5963     | 2.796  | ug/l #   | 79       |
| 22) Diisopropyl ether        | 6.106    | 45    | 12980    | 2.391  | ug/l #   | 96       |
| 23) Vinyl Acetate            | 6.052    | 43    | 34723    | 10.523 | ug/l     | 95       |
| 24) 1,1-Dichloroethane       | 6.003    | 63    | 8388     | 2.508  | ug/l     | 97       |
| 25) 2-Butanone               | 6.984    | 43    | 5646     | 11.565 | ug/l     | 99       |
| 26) 2,2-Dichloropropane      | 6.978    | 77    | 7713     | 2.549  | ug/l     | 96       |
| 27) cis-1,2-Dichloroethene   | 6.984    | 96    | 6486     | 2.574  | ug/l     | 96       |
| 28) Bromochloromethane       | 7.326    | 49    | 4042     | 3.024  | ug/l     | 98       |
| 29) Tetrahydrofuran          | 7.344    | 42    | 3723     | 11.553 | ug/l #   | 85       |
| 30) Chloroform               | 7.503    | 83    | 8978     | 2.572  | ug/l     | 86       |
| 31) Cyclohexane              | 7.783    | 56    | 11731    | 3.695  | ug/l #   | 58       |
| 32) 1,1,1-Trichloroethane    | 7.691    | 97    | 7219     | 2.307  | ug/l     | 95       |
| 36) 1,1-Dichloropropene      | 7.911    | 75    | 6593     | 2.475  | ug/l     | 93       |
| 37) Ethyl Acetate            | 7.064    | 43    | 3039m    | 2.711  | ug/l     |          |
| 38) Carbon Tetrachloride     | 7.899    | 117   | 6795     | 2.335  | ug/l     | 97       |
| 39) Methylcyclohexane        | 9.179    | 83    | 9527     | 2.480  | ug/l     | 97       |
| 40) Benzene                  | 8.155    | 78    | 20380    | 2.379  | ug/l     | 94       |

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Manual Integrations  
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 Supervised By :Semsettin Yesilyurt 05/14/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.295  | 41   | 1486m    | 2.296  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 4322     | 2.319  | ug/l   | 90       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 4627     | 2.014  | ug/l # | 54       |
| 44) Trichloroethene           | 8.941  | 130  | 5424     | 2.326  | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.210  | 63   | 4321     | 2.307  | ug/l # | 87       |
| 46) Dibromomethane            | 9.301  | 93   | 2428     | 2.255  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.496  | 83   | 5634     | 2.117  | ug/l   | 92       |
| 48) Methyl methacrylate       | 9.289  | 41   | 2196     | 2.085  | ug/l # | 82       |
| 49) 1,4-Dioxane               | 9.283  | 88   | 583      | 40.791 | ug/l # | 100      |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 11334    | 9.814  | ug/l   | 95       |
| 52) Toluene                   | 10.246 | 92   | 13290    | 2.410  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 5237     | 2.106  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 6466     | 2.128  | ug/l # | 89       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 3064     | 2.071  | ug/l   | 93       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 3533     | 1.759  | ug/l # | 70       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 4731     | 1.965  | ug/l # | 83       |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 8938     | 9.318  | ug/l   | 90       |
| 59) 2-Hexanone                | 10.831 | 43   | 7171     | 8.881  | ug/l   | 95       |
| 60) Dibromochloromethane      | 10.984 | 129  | 3790     | 1.975  | ug/l   | 93       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 3077     | 2.209  | ug/l   | 90       |
| 64) Tetrachloroethene         | 10.715 | 164  | 4649     | 2.447  | ug/l # | 81       |
| 65) Chlorobenzene             | 11.514 | 112  | 14183    | 2.440  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 4593     | 2.443  | ug/l   | 95       |
| 67) Ethyl Benzene             | 11.593 | 91   | 23620    | 2.407  | ug/l   | 95       |
| 68) m/p-Xylenes               | 11.703 | 106  | 19083    | 4.918  | ug/l   | 92       |
| 69) o-Xylene                  | 12.026 | 106  | 8514     | 2.286  | ug/l   | 96       |
| 70) Styrene                   | 12.044 | 104  | 13267    | 2.133  | ug/l   | 95       |
| 71) Bromoform                 | 12.209 | 173  | 2033     | 1.954  | ug/l # | 95       |
| 73) Isopropylbenzene          | 12.331 | 105  | 22032    | 2.437  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.142 | 43   | 4088     | 2.179  | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 3373     | 2.339  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.624 | 75   | 2166m    | 2.244  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 4916     | 2.367  | ug/l   | 94       |
| 78) n-propylbenzene           | 12.672 | 91   | 26541    | 2.524  | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 14298    | 2.447  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.813 | 105  | 17678    | 2.480  | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 1025m    | 2.046  | ug/l   |          |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 14420    | 2.457  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 16328    | 2.483  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 16473    | 2.359  | ug/l   | 95       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 23826    | 2.471  | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 18779    | 2.367  | ug/l   | 91       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 9513     | 2.372  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 9532     | 2.438  | ug/l   | 88       |
| 89) n-Butylbenzene            | 13.697 | 91   | 17491    | 2.436  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.959 | 117  | 3329     | 2.139  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 7671     | 2.225  | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 524      | 2.669  | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 4325     | 2.232  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 2330     | 2.179  | ug/l   | 89       |
| 95) Naphthalene               | 15.239 | 128  | 7792     | 2.194  | ug/l # | 95       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 3329     | 2.093  | ug/l   | 89       |

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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

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