

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY120723\  
 Data File : VY016632.D  
 Acq On : 07 Dec 2023 18:23  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 12/08/2023  
 Supervised By :Semsettin Yesilyurt 12/08/2023

Quant Time: Dec 08 00:26:20 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y120423S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 05 01:24:25 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.819          | 168  | 177814              | 50.000  | ug/l   | 0.01     |
| 34) 1,4-Difluorobenzene      | 8.715          | 114  | 256042              | 50.000  | ug/l   | 0.01     |
| 63) Chlorobenzene-d5         | 11.514         | 117  | 275404              | 50.000  | ug/l   | 0.01     |
| 72) 1,4-Dichlorobenzene-d4   | 13.446         | 152  | 115706              | 50.000  | ug/l   | 0.01     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.167          | 65   | 93696               | 57.011  | ug/l   | 0.01     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 114.020% |         |        |          |
| 35) Dibromofluoromethane     | 7.740          | 113  | 86180               | 55.930  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 111.860% |         |        |          |
| 50) Toluene-d8               | 10.203         | 98   | 337036              | 57.826  | ug/l   | 0.01     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 115.660% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.501         | 95   | 114026              | 59.491  | ug/l   | 0.01     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 118.980% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.918          | 85   | 72589               | 46.215  | ug/l   | 97       |
| 3) Chloromethane             | 2.125          | 50   | 104534              | 64.154  | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.265          | 62   | 105900              | 64.358  | ug/l   | 96       |
| 5) Bromomethane              | 2.674          | 94   | 68365               | 66.327  | ug/l   | 98       |
| 6) Chloroethane              | 2.814          | 64   | 69944               | 68.815  | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 3.149          | 101  | 184642              | 59.357  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.552          | 74   | 40805               | 47.100  | ug/l   | 77       |
| 9) 1,1,2-Trichlorotrifluo... | 3.930          | 101  | 79692               | 45.812  | ug/l   | 95       |
| 10) Methyl Iodide            | 4.125          | 142  | 104398              | 56.801  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 4.991          | 59   | 26046               | 232.601 | ug/l # | 78       |
| 12) 1,1-Dichloroethene       | 3.899          | 96   | 76774               | 48.584  | ug/l   | 88       |
| 13) Acrolein                 | 3.753          | 56   | 40614               | 249.481 | ug/l   | 100      |
| 14) Allyl chloride           | 4.515          | 41   | 103822              | 43.051  | ug/l # | 84       |
| 15) Acrylonitrile            | 5.198          | 53   | 74047               | 211.761 | ug/l   | 98       |
| 16) Acetone                  | 3.966          | 43   | 71111               | 191.209 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.222          | 76   | 201712              | 45.529  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.509          | 43   | 66206               | 44.911  | ug/l # | 85       |
| 19) Methyl tert-butyl Ether  | 5.253          | 73   | 201669              | 51.916  | ug/l   | 95       |
| 20) Methylene Chloride       | 4.753          | 84   | 85655               | 52.405  | ug/l # | 83       |
| 21) trans-1,2-Dichloroethene | 5.259          | 96   | 87723               | 49.365  | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.149          | 45   | 207200              | 41.776  | ug/l # | 90       |
| 23) Vinyl Acetate            | 6.094          | 43   | 490853              | 206.155 | ug/l # | 90       |
| 24) 1,1-Dichloroethane       | 6.051          | 63   | 138307              | 45.390  | ug/l   | 95       |
| 25) 2-Butanone               | 7.015          | 43   | 91261               | 178.455 | ug/l   | 90       |
| 26) 2,2-Dichloropropane      | 7.015          | 77   | 150459              | 52.524  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.021          | 96   | 98991               | 50.607  | ug/l   | 91       |
| 28) Bromochloromethane       | 7.362          | 49   | 50493               | 40.911  | ug/l # | 60       |
| 29) Tetrahydrofuran          | 7.374          | 42   | 54792               | 187.925 | ug/l # | 79       |
| 30) Chloroform               | 7.539          | 83   | 168881              | 51.994  | ug/l   | 96       |
| 31) Cyclohexane              | 7.819          | 56   | 108057              | 38.514  | ug/l   | 87       |
| 32) 1,1,1-Trichloroethane    | 7.728          | 97   | 169350              | 55.092  | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 7.947          | 75   | 115866              | 49.467  | ug/l   | 95       |
| 37) Ethyl Acetate            | 7.106          | 43   | 40760               | 41.587  | ug/l # | 92       |
| 38) Carbon Tetrachloride     | 7.929          | 117  | 160634              | 59.240  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.209          | 83   | 137923              | 48.873  | ug/l   | 87       |
| 40) Benzene                  | 8.185          | 78   | 334992              | 50.741  | ug/l   | 100      |

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 Quant Title : SW846 8260  
 QLast Update : Tue Dec 05 01:24:25 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.338  | 41   | 23112    | 40.830   | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 8.264  | 62   | 109679   | 57.213   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.295  | 43   | 83184    | 43.996   | ug/l # | 87       |
| 44) Trichloroethene           | 8.965  | 130  | 110160   | 55.329   | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 9.240  | 63   | 72357    | 45.523   | ug/l   | 95       |
| 46) Dibromomethane            | 9.331  | 93   | 45534    | 52.256   | ug/l   | 92       |
| 47) Bromodichloromethane      | 9.520  | 83   | 128719   | 55.487   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.313  | 41   | 47634    | 43.624   | ug/l   | 87       |
| 49) 1,4-Dioxane               | 9.319  | 88   | 9175     | 1040.287 | ug/l # | 60       |
| 51) 4-Methyl-2-Pentanone      | 10.093 | 43   | 208472   | 212.166  | ug/l   | 92       |
| 52) Toluene                   | 10.264 | 92   | 225257   | 54.439   | ug/l   | 94       |
| 53) t-1,3-Dichloropropene     | 10.483 | 75   | 119558   | 54.610   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.953  | 75   | 134541   | 52.326   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.666 | 97   | 63340    | 52.184   | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.532 | 69   | 56680    | 50.944   | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 10.813 | 76   | 105523   | 51.463   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.807  | 63   | 149292   | 217.738  | ug/l # | 82       |
| 59) 2-Hexanone                | 10.849 | 43   | 148573   | 199.880  | ug/l   | 91       |
| 60) Dibromochloromethane      | 11.008 | 129  | 92531    | 57.055   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.111 | 107  | 62388    | 54.648   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.739 | 164  | 119786   | 47.459   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.538 | 112  | 308699   | 55.341   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.611 | 131  | 117120   | 53.720   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.611 | 91   | 524368   | 52.416   | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.721 | 106  | 361338   | 95.145   | ug/l   | 95       |
| 69) o-Xylene                  | 12.050 | 106  | 165367   | 46.644   | ug/l   | 96       |
| 70) Styrene                   | 12.062 | 104  | 241011   | 47.381   | ug/l   | 100      |
| 71) Bromoform                 | 12.227 | 173  | 56857    | 48.296   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.349 | 105  | 455359   | 53.148   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.160 | 43   | 67954    | 39.777   | ug/l # | 89       |
| 75) 1,1,2,2-Tetrachloroethane | 12.599 | 83   | 59344    | 43.548   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.654 | 75   | 50385m   | 48.206   | ug/l   |          |
| 77) Bromobenzene              | 12.629 | 156  | 113969   | 56.442   | ug/l   | 81       |
| 78) n-propylbenzene           | 12.690 | 91   | 499342   | 50.073   | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 12.776 | 91   | 284831   | 50.687   | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 12.831 | 105  | 376709   | 54.111   | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.398 | 75   | 20015    | 43.197   | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 12.873 | 91   | 293807   | 50.529   | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.093 | 119  | 337865   | 54.318   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.141 | 105  | 369831   | 54.387   | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.270 | 105  | 444041   | 50.828   | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 13.385 | 119  | 407429   | 53.726   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.385 | 146  | 207881   | 53.931   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.465 | 146  | 203039   | 53.673   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.715 | 91   | 342861   | 50.274   | ug/l   | 94       |
| 90) Hexachloroethane          | 13.983 | 117  | 74320    | 49.808   | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene       | 13.757 | 146  | 180153   | 54.437   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.373 | 75   | 11088    | 50.846   | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.025 | 180  | 108018   | 57.843   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.129 | 225  | 65848    | 55.810   | ug/l   | 98       |
| 95) Naphthalene               | 15.257 | 128  | 180643   | 58.291   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.446 | 180  | 88285    | 59.180   | ug/l   | 97       |

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 ALS Vial : 14 Sample Multiplier: 1

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**Manual Integrations**  
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Reviewed By :Mahesh Dadoda 12/08/2023  
 Supervised By :Semsettin Yesilyurt 12/08/2023

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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

