

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122324\  
 Data File : VY020684.D  
 Acq On : 23 Dec 2024 11:30  
 Operator : SY/MD  
 Sample : VSTDICC005  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC005

Quant Time: Dec 23 14:02:53 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122324S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 23 14:02:50 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/24/2024  
 Supervised By :Mahesh Dadoda 12/26/2024

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.725          | 168  | 114649     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.628          | 114  | 164576     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.426         | 117  | 134316     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.358         | 152  | 63466      | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 0.000          | 65   | 0d         | 0.000   | ug/l   |          |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 0.000%# |        |          |
| 35) Dibromofluoromethane     | 0.000          | 113  | 0d         | 0.000   | ug/l   |          |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 0.000%# |        |          |
| 50) Toluene-d8               | 0.000          | 98   | 0d         | 0.000   | ug/l   |          |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 0.000%# |        |          |
| 62) 4-Bromofluorobenzene     | 0.000          | 95   | 0d         | 0.000   | ug/l   |          |
| Spiked Amount 50.000         | Range 29 - 146 |      | Recovery = | 0.000%# |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.879          | 85   | 3877       | 4.389   | ug/l   | 96       |
| 3) Chloromethane             | 2.080          | 50   | 1435       | 3.988   | ug/l   | 92       |
| 4) Vinyl Chloride            | 2.220          | 62   | 1872       | 4.267   | ug/l # | 88       |
| 5) Bromomethane              | 2.616          | 94   | 1271       | 4.103   | ug/l   | 96       |
| 6) Chloroethane              | 2.751          | 64   | 1116       | 4.185   | ug/l # | 82       |
| 7) Trichlorofluoromethane    | 3.080          | 101  | 6842       | 4.337   | ug/l   | 94       |
| 8) Diethyl Ether             | 3.470          | 74   | 1774       | 4.698   | ug/l   | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 3.842          | 101  | 3626       | 4.209   | ug/l   | 87       |
| 10) Methyl Iodide            | 4.025          | 142  | 3743       | 3.771   | ug/l # | 87       |
| 11) Tert butyl alcohol       | 4.866          | 59   | 3274m      | 40.278  | ug/l   |          |
| 12) 1,1-Dichloroethene       | 3.817          | 96   | 3204       | 4.190   | ug/l   | 85       |
| 13) Acrolein                 | 3.677          | 56   | 651        | 30.335  | ug/l # | 82       |
| 14) Allyl chloride           | 4.409          | 41   | 3677       | 4.101   | ug/l # | 77       |
| 15) Acrylonitrile            | 5.085          | 53   | 2940       | 21.121  | ug/l # | 80       |
| 16) Acetone                  | 3.897          | 43   | 3356       | 28.936  | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.141          | 76   | 7498       | 3.933   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.415          | 43   | 1080       | 3.599   | ug/l # | 87       |
| 19) Methyl tert-butyl Ether  | 5.134          | 73   | 8821       | 4.241   | ug/l   | 95       |
| 20) Methylene Chloride       | 4.647          | 84   | 3715       | 4.807   | ug/l # | 83       |
| 21) trans-1,2-Dichloroethene | 5.146          | 96   | 3551       | 4.307   | ug/l # | 80       |
| 22) Diisopropyl ether        | 6.043          | 45   | 7693       | 4.197   | ug/l # | 77       |
| 23) Vinyl Acetate            | 5.982          | 43   | 22139      | 20.396  | ug/l # | 87       |
| 24) 1,1-Dichloroethane       | 5.933          | 63   | 5733       | 4.195   | ug/l # | 89       |
| 25) 2-Butanone               | 6.914          | 43   | 3974       | 24.392  | ug/l # | 77       |
| 26) 2,2-Dichloropropane      | 6.908          | 77   | 8260       | 4.831   | ug/l   | 91       |
| 27) cis-1,2-Dichloroethene   | 6.914          | 96   | 4456       | 4.538   | ug/l   | 96       |
| 28) Bromochloromethane       | 7.268          | 49   | 1210       | 6.257   | ug/l # | 51       |
| 29) Tetrahydrofuran          | 7.286          | 42   | 1992       | 20.802  | ug/l # | 71       |
| 30) Chloroform               | 7.439          | 83   | 9018       | 5.021   | ug/l   | 96       |
| 31) Cyclohexane              | 7.719          | 56   | 6636       | 5.539   | ug/l # | 63       |
| 32) 1,1,1-Trichloroethane    | 7.640          | 97   | 8094       | 4.313   | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 7.859          | 75   | 4978       | 4.238   | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.012          | 43   | 1815       | 4.728   | ug/l # | 69       |
| 38) Carbon Tetrachloride     | 7.835          | 117  | 7766       | 4.086   | ug/l   | 91       |
| 39) Methylcyclohexane        | 9.121          | 83   | 6337       | 4.244   | ug/l   | 99       |
| 40) Benzene                  | 8.091          | 78   | 14311      | 4.223   | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122324\  
 Data File : VY020684.D  
 Acq On : 23 Dec 2024 11:30  
 Operator : SY/MD  
 Sample : VSTDICC005  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/24/2024  
 Supervised By :Mahesh Dadoda 12/26/2024

Quant Time: Dec 23 14:02:53 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122324S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 23 14:02:50 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.244  | 41   | 917      | 4.221  | ug/l # | 85       |
| 42) 1,2-Dichloroethane        | 8.170  | 62   | 4467     | 4.145  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.213  | 43   | 3082     | 3.863  | ug/l # | 86       |
| 44) Trichloroethene           | 8.877  | 130  | 4289     | 4.265  | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.158  | 63   | 2724     | 4.091  | ug/l   | 91       |
| 46) Dibromomethane            | 9.249  | 93   | 1946     | 4.234  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.438  | 83   | 5373     | 4.121  | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.231  | 41   | 1480     | 3.913  | ug/l # | 89       |
| 49) 1,4-Dioxane               | 9.262  | 88   | 259      | 66.488 | ug/l # | 39       |
| 51) 4-Methyl-2-Pentanone      | 10.011 | 43   | 9070     | 22.757 | ug/l   | 98       |
| 52) Toluene                   | 10.182 | 92   | 9584     | 4.153  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.408 | 75   | 4552     | 3.946  | ug/l   | 92       |
| 54) cis-1,3-Dichloropropene   | 9.871  | 75   | 4997     | 3.931  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.578 | 97   | 2529     | 4.249  | ug/l   | 87       |
| 56) Ethyl methacrylate        | 10.450 | 69   | 2795     | 3.682  | ug/l   | 87       |
| 57) 1,3-Dichloropropane       | 10.731 | 76   | 3981     | 4.092  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.725  | 63   | 6120     | 21.573 | ug/l # | 79       |
| 59) 2-Hexanone                | 10.774 | 43   | 4717     | 18.580 | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.920 | 129  | 4012     | 4.222  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.030 | 107  | 2170     | 3.889  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.658 | 164  | 3679     | 4.124  | ug/l   | 89       |
| 65) Chlorobenzene             | 11.456 | 112  | 10890    | 4.339  | ug/l   | 94       |
| 66) 1,1,1,2-Tetrachloroethane | 11.523 | 131  | 4311     | 4.398  | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.529 | 91   | 18768    | 4.168  | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.639 | 106  | 14272    | 8.311  | ug/l   | 100      |
| 69) o-Xylene                  | 11.968 | 106  | 6616     | 4.102  | ug/l   | 98       |
| 70) Styrene                   | 11.981 | 104  | 11050    | 4.073  | ug/l   | 98       |
| 71) Bromoform                 | 12.145 | 173  | 2411     | 4.295  | ug/l # | 94       |
| 73) Isopropylbenzene          | 12.267 | 105  | 18930    | 4.385  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.078 | 43   | 2293     | 3.780  | ug/l # | 88       |
| 75) 1,1,2,2-Tetrachloroethane | 12.517 | 83   | 2450     | 4.410  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.560 | 75   | 1934m    | 4.649  | ug/l   |          |
| 77) Bromobenzene              | 12.541 | 156  | 4234     | 4.307  | ug/l   | 89       |
| 78) n-propylbenzene           | 12.602 | 91   | 21465    | 4.410  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.688 | 91   | 12202    | 4.404  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 12.749 | 105  | 15597    | 4.356  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75   | 810      | 4.023  | ug/l   | 88       |
| 82) 4-Chlorotoluene           | 12.785 | 91   | 12300    | 4.353  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.011 | 119  | 14849    | 4.457  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.054 | 105  | 14790    | 4.228  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.188 | 105  | 19621    | 4.374  | ug/l   | 94       |
| 86) p-Isopropyltoluene        | 13.304 | 119  | 16486    | 4.204  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.297 | 146  | 8502     | 4.452  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.377 | 146  | 8186     | 4.375  | ug/l   | 89       |
| 89) n-Butylbenzene            | 13.627 | 91   | 14168    | 4.288  | ug/l   | 93       |
| 90) Hexachloroethane          | 13.889 | 117  | 3276     | 4.403  | ug/l   | 86       |
| 91) 1,2-Dichlorobenzene       | 13.669 | 146  | 7116     | 4.342  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.285 | 75   | 478      | 4.516  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 14.937 | 180  | 3572     | 3.671  | ug/l   | 95       |
| 94) Hexachlorobutadiene       | 15.035 | 225  | 2958     | 4.083  | ug/l   | 97       |
| 95) Naphthalene               | 15.157 | 128  | 5634     | 6.410  | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 15.346 | 180  | 2952     | 3.629  | ug/l   | 97       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122324\  
Data File : VY020684.D  
Acq On : 23 Dec 2024 11:30  
Operator : SY/MD  
Sample : VSTDICC005  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC005

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 12/24/2024  
Supervised By :Mahesh Dadoda 12/26/2024

Quant Time: Dec 23 14:02:53 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122324S.M  
Quant Title : SW846 8260  
QLast Update : Mon Dec 23 14:02:50 2024  
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122324\  
Data File : VY020684.D  
Acq On : 23 Dec 2024 11:30  
Operator : SY/MD  
Sample : VSTDIC005  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC005

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 12/24/2024  
Supervised By : Mahesh Dadoda 12/26/2024

Quant Time: Dec 23 14:02:53 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122324S.M  
Quant Title : SW846 8260  
QLast Update : Mon Dec 23 14:02:50 2024  
Response via : Initial Calibration

