

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD111524\  
 Data File : VD080013.D  
 Acq On : 14 Nov 2024 18:56  
 Operator : RP/MD  
 Sample : VSTDICC020  
 Misc : 5.00G/5ml/MSVOA\_D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC020

Quant Time: Nov 15 05:55:01 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D111424S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 15 05:52:29 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024  
 Supervised By :Semsettin Yesilyurt 11/18/2024

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.875          | 168  | 197988     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.781          | 114  | 310792     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 289410     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.516         | 152  | 158312     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.228          | 65   | 42292      | 20.838   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 41.680%# |        |          |
| 35) Dibromofluoromethane     | 7.805          | 113  | 42661      | 20.532   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 41.060%# |        |          |
| 50) Toluene-d8               | 10.269         | 98   | 158316     | 20.140   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 40.280%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.575         | 95   | 52082      | 19.753   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 39.500%  |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.934          | 85   | 30037      | 18.249   | ug/l   | 97       |
| 3) Chloromethane             | 2.146          | 50   | 21292      | 17.611   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.287          | 62   | 24432      | 17.240   | ug/l   | 97       |
| 5) Bromomethane              | 2.681          | 94   | 31236      | 18.193   | ug/l   | 98       |
| 6) Chloroethane              | 2.834          | 64   | 16810      | 17.483   | ug/l   | 91       |
| 7) Trichlorofluoromethane    | 3.175          | 101  | 61842      | 18.228   | ug/l   | 96       |
| 8) Diethyl Ether             | 3.599          | 74   | 16718      | 17.829   | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 3.964          | 101  | 39444      | 18.420   | ug/l   | 96       |
| 10) Methyl Iodide            | 4.164          | 142  | 30454      | 17.537   | ug/l   | 100      |
| 11) Tert butyl alcohol       | 5.052          | 59   | 9736       | 93.174   | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 3.946          | 96   | 37897      | 18.444   | ug/l # | 78       |
| 13) Acrolein                 | 3.793          | 56   | 17095      | 89.396   | ug/l   | 97       |
| 14) Allyl chloride           | 4.564          | 41   | 45743      | 16.420   | ug/l   | 94       |
| 15) Acrylonitrile            | 5.258          | 53   | 36871      | 91.935   | ug/l   | 97       |
| 16) Acetone                  | 4.022          | 43   | 34437      | 71.386   | ug/l   | 89       |
| 17) Carbon Disulfide         | 4.269          | 76   | 120227     | 17.759   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.575          | 43   | 15721      | 16.610   | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 5.328          | 73   | 75246      | 18.270   | ug/l   | 94       |
| 20) Methylene Chloride       | 4.805          | 84   | 45590      | 18.033   | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.316          | 96   | 42325      | 18.385   | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.210          | 45   | 116833     | 19.939   | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.158          | 43   | 321142     | 97.485   | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.110          | 63   | 77768      | 19.756   | ug/l   | 97       |
| 25) 2-Butanone               | 7.087          | 43   | 53471      | 87.872   | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 7.075          | 77   | 65340      | 18.559   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.081          | 96   | 48278      | 18.256   | ug/l   | 98       |
| 28) Bromochloromethane       | 7.428          | 49   | 34258      | 19.404   | ug/l   | 96       |
| 29) Tetrahydrofuran          | 7.452          | 42   | 30397      | 95.655   | ug/l   | 98       |
| 30) Chloroform               | 7.599          | 83   | 81408      | 18.637   | ug/l   | 99       |
| 31) Cyclohexane              | 7.881          | 56   | 60562      | 18.180   | ug/l # | 91       |
| 32) 1,1,1-Trichloroethane    | 7.793          | 97   | 68689      | 18.839   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.010          | 75   | 55306      | 18.240   | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.169          | 43   | 23323      | 18.522   | ug/l # | 79       |
| 38) Carbon Tetrachloride     | 7.993          | 117  | 62170      | 18.672   | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.275          | 83   | 63363      | 17.918   | ug/l   | 99       |
| 40) Benzene                  | 8.252          | 78   | 174136     | 18.591   | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD111524\  
 Data File : VD080013.D  
 Acq On : 14 Nov 2024 18:56  
 Operator : RP/MD  
 Sample : VSTDICC020  
 Misc : 5.00G/5ml/MSVOA\_D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC020

Quant Time: Nov 15 05:55:01 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D111424S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 15 05:52:29 2024  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024  
 Supervised By :Semsettin Yesilyurt 11/18/2024

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.405  | 41   | 13402    | 19.170  | ug/l   | 90       |
| 42) 1,2-Dichloroethane        | 8.328  | 62   | 47231    | 19.248  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.363  | 43   | 42249    | 18.464  | ug/l   | 98       |
| 44) Trichloroethene           | 9.028  | 130  | 46010    | 19.047  | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 42265    | 18.961  | ug/l   | 95       |
| 46) Dibromomethane            | 9.393  | 93   | 25016    | 19.096  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.587  | 83   | 61993    | 18.878  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.381  | 41   | 18730    | 18.314  | ug/l   | 92       |
| 49) 1,4-Dioxane               | 9.387  | 88   | 5199     | 416.536 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 112478   | 97.541  | ug/l   | 99       |
| 52) Toluene                   | 10.334 | 92   | 108403   | 18.585  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 52881    | 18.573  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 64194    | 18.814  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 33594    | 19.206  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.598 | 69   | 36283    | 18.245  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.875 | 76   | 53909    | 19.064  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 64674    | 91.067  | ug/l   | 98       |
| 59) 2-Hexanone                | 10.922 | 43   | 80833    | 91.344  | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.075 | 129  | 44014    | 19.000  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 31735    | 19.328  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.810 | 164  | 39538    | 18.100  | ug/l   | 93       |
| 65) Chlorobenzene             | 11.604 | 112  | 121125   | 18.268  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 43115    | 18.290  | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.681 | 91   | 200511   | 18.270  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.793 | 106  | 161089   | 37.223  | ug/l   | 99       |
| 69) o-Xylene                  | 12.122 | 106  | 71286    | 18.138  | ug/l   | 99       |
| 70) Styrene                   | 12.134 | 104  | 130692   | 18.705  | ug/l   | 99       |
| 71) Bromoform                 | 12.298 | 173  | 25340    | 19.038  | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.422 | 105  | 186183   | 17.902  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.234 | 43   | 41691    | 18.782  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 37992    | 18.894  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.722 | 75   | 29790m   | 22.069  | ug/l   |          |
| 77) Bromobenzene              | 12.698 | 156  | 49984    | 18.253  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.763 | 91   | 235470   | 18.297  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.845 | 91   | 138993   | 18.171  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 161145   | 18.319  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 13378    | 19.167  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.945 | 91   | 150243   | 18.497  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.163 | 119  | 135502   | 17.852  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 165467   | 18.503  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 208556   | 18.343  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 174095   | 18.048  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 103564   | 18.277  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.540 | 146  | 102782   | 18.017  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.787 | 91   | 157177   | 17.528  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.051 | 117  | 37826    | 17.983  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.834 | 146  | 91029    | 18.377  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75   | 5547     | 18.068  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 52828    | 17.399  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 30325    | 18.199  | ug/l   | 97       |
| 95) Naphthalene               | 15.328 | 128  | 89192    | 17.447  | ug/l   | 96       |
| 96) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 47228    | 17.884  | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD111524\  
Data File : VD080013.D  
Acq On : 14 Nov 2024 18:56  
Operator : RP/MD  
Sample : VSTDICC020  
Misc : 5.00G/5ml/MSVOA\_D/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICC020

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024  
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:55:01 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D111424S.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 15 05:52:29 2024  
Response via : Initial Calibration

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

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

