

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122624\  
 Data File : VY020708.D  
 Acq On : 26 Dec 2024 10:16  
 Operator : SY/MD  
 Sample : VSTDICC020  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC020

Quant Time: Dec 26 16:05:50 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122624S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 26 16:03:55 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/27/2024  
 Supervised By :Semsettin Yesilyurt 12/27/2024

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.720          | 168  | 124056     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.622          | 114  | 173311     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.420         | 117  | 146011     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.353         | 152  | 74311      | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.067          | 65   | 15547      | 15.300   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 30.600%# |        |          |
| 35) Dibromofluoromethane     | 7.646          | 113  | 16110      | 16.876   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 33.760%# |        |          |
| 50) Toluene-d8               | 10.115         | 98   | 50794      | 14.644   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 29.280%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.414         | 95   | 22093      | 17.414   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 29 - 146 |      | Recovery = | 34.820%  |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 18601      | 19.049   | ug/l   | 92       |
| 3) Chloromethane             | 2.074          | 50   | 6487       | 17.813   | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.214          | 62   | 8742       | 19.375   | ug/l   | 98       |
| 5) Bromomethane              | 2.611          | 94   | 6370       | 18.699   | ug/l   | 96       |
| 6) Chloroethane              | 2.745          | 64   | 5058       | 18.687   | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.074          | 101  | 34026      | 19.610   | ug/l   | 99       |
| 8) Diethyl Ether             | 3.470          | 74   | 7737       | 18.739   | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 3.824          | 101  | 18742      | 19.675   | ug/l   | 97       |
| 10) Methyl Iodide            | 4.019          | 142  | 19652      | 18.866   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.897          | 59   | 6567       | 90.235   | ug/l # | 88       |
| 12) 1,1-Dichloroethene       | 3.806          | 96   | 16374      | 19.312   | ug/l   | 93       |
| 13) Acrolein                 | 3.665          | 56   | 2867       | 134.971  | ug/l   | 94       |
| 14) Allyl chloride           | 4.403          | 41   | 19316      | 19.468   | ug/l   | 96       |
| 15) Acrylonitrile            | 5.074          | 53   | 14919      | 93.535   | ug/l   | 99       |
| 16) Acetone                  | 3.885          | 43   | 11272      | 87.443   | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.123          | 76   | 38140      | 18.338   | ug/l   | 96       |
| 18) Methyl Acetate           | 4.403          | 43   | 6527       | 18.708   | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.135          | 73   | 45739      | 19.355   | ug/l   | 97       |
| 20) Methylene Chloride       | 4.629          | 84   | 16287      | 19.426   | ug/l   | 87       |
| 21) trans-1,2-Dichloroethene | 5.128          | 96   | 17672      | 19.342   | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.031          | 45   | 39891      | 19.778   | ug/l   | 97       |
| 23) Vinyl Acetate            | 5.976          | 43   | 116269     | 96.512   | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 5.939          | 63   | 29556      | 19.545   | ug/l   | 98       |
| 25) 2-Butanone               | 6.903          | 43   | 16336      | 93.814   | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 6.903          | 77   | 35847      | 19.368   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.909          | 96   | 21139      | 19.320   | ug/l   | 98       |
| 28) Bromochloromethane       | 7.256          | 49   | 6388       | 15.974   | ug/l   | 93       |
| 29) Tetrahydrofuran          | 7.274          | 42   | 9908       | 92.698   | ug/l   | 94       |
| 30) Chloroform               | 7.433          | 83   | 37350      | 19.200   | ug/l   | 97       |
| 31) Cyclohexane              | 7.720          | 56   | 24456      | 18.736   | ug/l # | 95       |
| 32) 1,1,1-Trichloroethane    | 7.628          | 97   | 40987      | 19.656   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.848          | 75   | 24262      | 19.240   | ug/l   | 98       |
| 37) Ethyl Acetate            | 6.994          | 43   | 8299       | 19.972   | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 7.829          | 117  | 40302      | 19.409   | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.116          | 83   | 32007      | 19.803   | ug/l   | 94       |
| 40) Benzene                  | 8.091          | 78   | 72108      | 19.731   | ug/l   | 98       |

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 ALS Vial : 5 Sample Multiplier: 1

## Instrument :

MSVOA\_Y

## ClientSampleId :

VSTDICC020

## Manual Integrations

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Reviewed By :Mahesh Dadoda 12/27/2024

Supervised By :Semsettin Yesilyurt 12/27/2024

Quant Time: Dec 26 16:05:50 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122624S.M

Quant Title : SW846 8260

QLast Update : Thu Dec 26 16:03:55 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.232  | 41   | 4661     | 22.206  | ug/l   | 97       |
| 42) 1,2-Dichloroethane        | 8.171  | 62   | 22531    | 19.227  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.207  | 43   | 16635    | 18.834  | ug/l   | 98       |
| 44) Trichloroethene           | 8.878  | 130  | 21859    | 20.026  | ug/l   | 88       |
| 45) 1,2-Dichloropropane       | 9.152  | 63   | 14245    | 19.256  | ug/l   | 92       |
| 46) Dibromomethane            | 9.238  | 93   | 9719     | 18.988  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.433  | 83   | 28737    | 19.803  | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.225  | 41   | 7787     | 18.879  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.238  | 88   | 1825     | 374.309 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.006 | 43   | 40592    | 95.218  | ug/l   | 99       |
| 52) Toluene                   | 10.176 | 92   | 50060    | 19.986  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.402 | 75   | 24428    | 19.166  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.865  | 75   | 27417    | 19.625  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.579 | 97   | 12886    | 19.722  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.445 | 69   | 16830    | 19.607  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.725 | 76   | 20740    | 19.558  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether | 9.719  | 63   | 27533    | 91.985  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.768 | 43   | 27109    | 96.312  | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.920 | 129  | 20354    | 19.279  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.018 | 107  | 12098    | 19.678  | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.658 | 164  | 20307    | 20.357  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.451 | 112  | 56993    | 19.935  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131  | 21420    | 19.338  | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.524 | 91   | 100148   | 20.042  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.633 | 106  | 75856    | 39.796  | ug/l   | 99       |
| 69) o-Xylene                  | 11.963 | 106  | 37301    | 20.482  | ug/l   | 96       |
| 70) Styrene                   | 11.975 | 104  | 61946    | 20.262  | ug/l   | 98       |
| 71) Bromoform                 | 12.139 | 173  | 12354    | 19.400  | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.261 | 105  | 104274   | 20.254  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.078 | 43   | 14154    | 19.346  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83   | 13030    | 19.742  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.560 | 75   | 10691m   | 18.239  | ug/l   |          |
| 77) Bromobenzene              | 12.536 | 156  | 23151    | 19.534  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.603 | 91   | 118053   | 20.458  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.688 | 91   | 66234    | 20.135  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.743 | 105  | 86460    | 20.157  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75   | 4620     | 19.322  | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 12.786 | 91   | 68187    | 20.057  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.005 | 119  | 81757    | 20.410  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.048 | 105  | 85025    | 20.370  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.182 | 105  | 110869   | 20.536  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.298 | 119  | 97722    | 20.311  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.292 | 146  | 46587    | 20.113  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.371 | 146  | 46439    | 20.154  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.627 | 91   | 82147    | 20.454  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.889 | 117  | 17856    | 19.517  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.664 | 146  | 40471    | 20.378  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75   | 2548     | 19.905  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 14.932 | 180  | 24098    | 19.089  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.029 | 225  | 18082    | 19.654  | ug/l   | 99       |
| 95) Naphthalene               | 15.151 | 128  | 38351    | 18.968  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.340 | 180  | 20167    | 19.187  | ug/l   | 98       |

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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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