

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY111124\  
 Data File : VY020239.D  
 Acq On : 11 Nov 2024 11:11  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 11/12/2024  
 Supervised By :Semsettin Yesilyurt 11/12/2024

Quant Time: Nov 11 23:11:07 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y103024S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 31 15:23:13 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.707          | 168  | 256654     | 50.000   | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.615          | 114  | 453274     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.413         | 117  | 393673     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.346         | 152  | 187296     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.060          | 65   | 162926     | 50.863   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 101.720% |        |          |
| 35) Dibromofluoromethane     | 7.634          | 113  | 152606     | 52.953   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 105.900% |        |          |
| 50) Toluene-d8               | 10.103         | 98   | 602294     | 52.504   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 105.000% |        |          |
| 62) 4-Bromofluorobenzene     | 12.407         | 95   | 202729     | 54.409   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 29 - 146 |      | Recovery = | 108.820% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.866          | 85   | 109707     | 46.177   | ug/l   | 99       |
| 3) Chloromethane             | 2.068          | 50   | 186347     | 47.353   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.202          | 62   | 219896     | 52.051   | ug/l   | 99       |
| 5) Bromomethane              | 2.598          | 94   | 139395     | 49.698   | ug/l   | 98       |
| 6) Chloroethane              | 2.738          | 64   | 143642     | 52.684   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.055          | 101  | 285317     | 55.284   | ug/l   | 96       |
| 8) Diethyl Ether             | 3.458          | 74   | 79504      | 55.233   | ug/l   | 83       |
| 9) 1,1,2-Trichlorotrifluo... | 3.817          | 101  | 152341     | 52.627   | ug/l   | 92       |
| 10) Methyl Iodide            | 4.006          | 142  | 155773     | 55.738   | ug/l # | 89       |
| 11) Tert butyl alcohol       | 4.860          | 59   | 51534      | 223.664  | ug/l # | 77       |
| 12) 1,1-Dichloroethene       | 3.793          | 96   | 149208     | 53.873   | ug/l # | 75       |
| 13) Acrolein                 | 3.653          | 56   | 43156      | 150.463  | ug/l   | 99       |
| 14) Allyl chloride           | 4.384          | 41   | 267894     | 53.612   | ug/l # | 90       |
| 15) Acrylonitrile            | 5.061          | 53   | 171786     | 262.178  | ug/l   | 99       |
| 16) Acetone                  | 3.866          | 43   | 221515     | 297.367  | ug/l # | 82       |
| 17) Carbon Disulfide         | 4.104          | 76   | 459642     | 49.869   | ug/l   | 98       |
| 18) Methyl Acetate           | 4.384          | 43   | 93001      | 53.211   | ug/l # | 88       |
| 19) Methyl tert-butyl Ether  | 5.122          | 73   | 391241     | 56.150   | ug/l   | 100      |
| 20) Methylene Chloride       | 4.622          | 84   | 158098     | 47.245   | ug/l # | 87       |
| 21) trans-1,2-Dichloroethene | 5.116          | 96   | 166004     | 53.146   | ug/l # | 85       |
| 22) Diisopropyl ether        | 6.018          | 45   | 568346     | 54.809   | ug/l   | 91       |
| 23) Vinyl Acetate            | 5.957          | 43   | 1565544    | 268.272  | ug/l # | 92       |
| 24) 1,1-Dichloroethane       | 5.914          | 63   | 325511     | 54.212   | ug/l   | 97       |
| 25) 2-Butanone               | 6.896          | 43   | 275775     | 273.106  | ug/l # | 85       |
| 26) 2,2-Dichloropropane      | 6.884          | 77   | 277720     | 55.591   | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 6.890          | 96   | 198595     | 55.310   | ug/l   | 84       |
| 28) Bromochloromethane       | 7.243          | 49   | 147765     | 52.557   | ug/l # | 75       |
| 29) Tetrahydrofuran          | 7.262          | 42   | 154012     | 264.288  | ug/l # | 84       |
| 30) Chloroform               | 7.420          | 83   | 330430     | 55.457   | ug/l   | 99       |
| 31) Cyclohexane              | 7.701          | 56   | 281924     | 48.500   | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 7.615          | 97   | 292774     | 56.281   | ug/l   | 94       |
| 36) 1,1-Dichloropropene      | 7.835          | 75   | 241832     | 54.322   | ug/l   | 95       |
| 37) Ethyl Acetate            | 6.981          | 43   | 111718     | 52.635   | ug/l # | 93       |
| 38) Carbon Tetrachloride     | 7.817          | 117  | 254548     | 56.860   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.109          | 83   | 296897     | 52.546   | ug/l # | 87       |
| 40) Benzene                  | 8.079          | 78   | 710210     | 54.656   | ug/l   | 100      |

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Manual Integrations  
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| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.225  | 41   | 63269    | 59.506   | ug/l # | 83       |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 194567   | 54.094   | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.195  | 43   | 219088   | 53.678   | ug/l # | 79       |
| 44) Trichloroethene           | 8.865  | 130  | 167182   | 55.511   | ug/l   | 90       |
| 45) 1,2-Dichloropropane       | 9.139  | 63   | 170160   | 54.733   | ug/l   | 97       |
| 46) Dibromomethane            | 9.231  | 93   | 90910    | 53.967   | ug/l   | 89       |
| 47) Bromodichloromethane      | 9.420  | 83   | 251317   | 56.949   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.219  | 41   | 103016   | 54.490   | ug/l # | 82       |
| 49) 1,4-Dioxane               | 9.225  | 88   | 18956    | 1092.992 | ug/l # | 98       |
| 51) 4-Methyl-2-Pentanone      | 9.999  | 43   | 577064   | 274.391  | ug/l   | 90       |
| 52) Toluene                   | 10.170 | 92   | 445497   | 55.618   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.389 | 75   | 221128   | 56.744   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.853  | 75   | 261035   | 56.120   | ug/l # | 87       |
| 55) 1,1,2-Trichloroethane     | 10.572 | 97   | 118033   | 56.354   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 172002   | 57.249   | ug/l # | 74       |
| 57) 1,3-Dichloropropane       | 10.712 | 76   | 211197   | 55.062   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 398554   | 268.985  | ug/l   | 94       |
| 59) 2-Hexanone                | 10.761 | 43   | 427147   | 283.302  | ug/l   | 88       |
| 60) Dibromochloromethane      | 10.907 | 129  | 155077   | 58.085   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.011 | 107  | 106090   | 54.519   | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.645 | 164  | 150404   | 57.863   | ug/l   | 94       |
| 65) Chlorobenzene             | 11.438 | 112  | 469735   | 55.999   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131  | 156876   | 58.536   | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.517 | 91   | 880921   | 56.180   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.627 | 106  | 649015   | 113.130  | ug/l   | 92       |
| 69) o-Xylene                  | 11.956 | 106  | 307088   | 56.539   | ug/l   | 93       |
| 70) Styrene                   | 11.968 | 104  | 524681   | 58.424   | ug/l   | 96       |
| 71) Bromoform                 | 12.133 | 173  | 79917    | 58.127   | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.255 | 105  | 840083   | 56.147   | ug/l   | 97       |
| 74) N-ethyl acetate           | 12.072 | 43   | 209564   | 56.031   | ug/l # | 87       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 139169   | 53.184   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 100455m  | 57.216   | ug/l   |          |
| 77) Bromobenzene              | 12.529 | 156  | 166317   | 54.964   | ug/l   | 84       |
| 78) n-propylbenzene           | 12.596 | 91   | 1028450  | 55.230   | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.682 | 91   | 567794   | 54.931   | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 12.736 | 105  | 667412   | 55.562   | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 45095    | 55.247   | ug/l # | 83       |
| 82) 4-Chlorotoluene           | 12.779 | 91   | 589864   | 55.969   | ug/l   | 94       |
| 83) tert-Butylbenzene         | 12.999 | 119  | 605567   | 57.653   | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.041 | 105  | 665538   | 55.939   | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.175 | 105  | 905553   | 56.158   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.291 | 119  | 724703   | 56.006   | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene       | 13.285 | 146  | 339395   | 55.211   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.364 | 146  | 331913   | 54.219   | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.614 | 91   | 721601   | 55.630   | ug/l   | 98       |
| 90) Hexachloroethane          | 13.883 | 117  | 145470   | 56.845   | ug/l   | 84       |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 296510   | 55.493   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75   | 21633    | 54.513   | ug/l   | 74       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 159389   | 55.529   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 85519    | 54.485   | ug/l   | 97       |
| 95) Naphthalene               | 15.145 | 128  | 311113   | 57.983   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.333 | 180  | 133198   | 54.667   | 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

