

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY051023\  
 Data File : VY013681.D  
 Acq On : 10 May 2023 12:35  
 Operator : KP/MD  
 Sample : VY0510SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0510SBS01

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 05/11/2023  
 Supervised By :Mahesh Dadoda 05/11/2023

Quant Time: May 11 03:24:52 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042423S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 02:39:58 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 242827              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 360531              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 327264              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 167562              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 139234              | 52.306  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 104.620% |         |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 126035              | 55.581  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 111.160% |         |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 423681              | 52.522  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 105.040% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 153935              | 56.605  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 113.200% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 53827               | 23.317  | ug/l   | 99       |
| 3) Chloromethane             | 2.113          | 50   | 64074               | 20.706  | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.253          | 62   | 63573               | 20.633  | ug/l   | 98       |
| 5) Bromomethane              | 2.650          | 94   | 49477               | 20.151  | ug/l   | 97       |
| 6) Chloroethane              | 2.796          | 64   | 39995               | 18.790  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 110342              | 23.640  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.527          | 74   | 32654               | 20.544  | ug/l   | 92       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 57244               | 21.865  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.088          | 142  | 63162               | 19.208  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.942          | 59   | 51451               | 171.809 | ug/l # | 97       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 53389               | 21.155  | ug/l   | 92       |
| 13) Acrolein                 | 3.729          | 56   | 18193               | 71.914  | ug/l   | 92       |
| 14) Allyl chloride           | 4.485          | 41   | 94587               | 20.199  | ug/l   | 97       |
| 15) Acrylonitrile            | 5.167          | 53   | 88972               | 99.952  | ug/l   | 99       |
| 16) Acetone                  | 3.954          | 43   | 96430               | 91.988  | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.192          | 76   | 156378              | 19.076  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.479          | 43   | 65199               | 18.831  | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.222          | 73   | 149785              | 20.559  | ug/l   | 98       |
| 20) Methylene Chloride       | 4.710          | 84   | 86906               | 21.920  | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 58220               | 21.100  | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.118          | 45   | 195810              | 21.394  | ug/l   | 94       |
| 23) Vinyl Acetate            | 6.064          | 43   | 559410              | 107.949 | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 111494              | 21.857  | ug/l   | 98       |
| 25) 2-Butanone               | 6.984          | 43   | 126451              | 95.114  | ug/l   | 91       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 101989              | 23.203  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 67556               | 22.159  | ug/l   | 95       |
| 28) Bromochloromethane       | 7.338          | 49   | 39984               | 22.089  | ug/l   | 86       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 74459               | 89.974  | ug/l   | 94       |
| 30) Chloroform               | 7.502          | 83   | 115495              | 22.772  | ug/l   | 99       |
| 31) Cyclohexane              | 7.789          | 56   | 96382               | 20.223  | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 105568              | 23.326  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 85031               | 22.594  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.076          | 43   | 54373               | 19.199  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 98538               | 24.981  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.185          | 83   | 96093               | 21.659  | ug/l   | 97       |
| 40) Benzene                  | 8.161          | 78   | 247566              | 23.353  | ug/l   | 100      |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.326  | 41   | 30901m   | 23.415  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 83617    | 24.126  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.271  | 43   | 97171    | 20.328  | ug/l   | 97       |
| 44) Trichloroethene           | 8.935  | 130  | 64844    | 22.996  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.215  | 63   | 64055    | 23.110  | ug/l   | 97       |
| 46) Dibromomethane            | 9.307  | 93   | 36737    | 22.151  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.496  | 83   | 88217    | 23.772  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.295  | 41   | 45107    | 20.546  | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.313  | 88   | 8963     | 378.406 | ug/l # | 85       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 262009   | 98.361  | ug/l   | 97       |
| 52) Toluene                   | 10.240 | 92   | 151869   | 23.806  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 88541    | 22.544  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 100295   | 22.694  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 50602    | 23.040  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 64774    | 21.258  | ug/l   | 94       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 85478    | 22.980  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 125458   | 109.803 | ug/l   | 95       |
| 59) 2-Hexanone                | 10.831 | 43   | 191454   | 98.875  | ug/l   | 95       |
| 60) Dibromochloromethane      | 10.983 | 129  | 62473    | 23.426  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 47670    | 22.077  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.715 | 164  | 58240    | 23.403  | ug/l   | 99       |
| 65) Chlorobenzene             | 11.514 | 112  | 162516   | 22.796  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 63260    | 23.726  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.593 | 91   | 288849   | 23.074  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 224400   | 47.153  | ug/l   | 98       |
| 69) o-Xylene                  | 12.026 | 106  | 106218   | 23.600  | ug/l   | 100      |
| 70) Styrene                   | 12.044 | 104  | 175531   | 23.325  | ug/l   | 100      |
| 71) Bromoform                 | 12.209 | 173  | 42245    | 22.620  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.331 | 105  | 278334   | 21.961  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 82549    | 18.303  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 62359    | 20.130  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 44802m   | 19.826  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 69098    | 22.501  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.672 | 91   | 347538   | 22.263  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 192921   | 22.130  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 235106   | 22.728  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 20786    | 18.816  | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 200704   | 22.089  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 202243   | 22.567  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 231008   | 22.970  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 304522   | 22.641  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 250132   | 23.125  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 136225   | 23.284  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 133630   | 22.611  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 233603   | 22.128  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.959 | 117  | 50744    | 22.291  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 120099   | 22.732  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 10042    | 18.355  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 70521    | 22.388  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 45443    | 24.789  | ug/l   | 100      |
| 95) Naphthalene               | 15.233 | 128  | 130510   | 19.096  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 61673    | 21.967  | 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

