

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY052322\  
 Data File : VY009045.D  
 Acq On : 24 May 2022 07:03  
 Operator : KP/MD  
 Sample : N2948-07MS  
 Misc : 5.66g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 P035-SS001-1218-01MS

Quant Time: May 24 07:50:28 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052022S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 20 23:50:52 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 05/24/2022  
 Supervised By : Mahesh Dadoda 05/24/2022

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 72182               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 134999              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 137777              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 78864               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 39048               | 52.563  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 105.120% |         |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 39440               | 46.981  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 93.960%  |         |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 125430              | 40.501  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 81.000%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 62163               | 49.759  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 99.520%  |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 38101               | 57.712  | ug/l   | 97       |
| 3) Chloromethane             | 2.113          | 50   | 60181               | 63.629  | ug/l   | 94       |
| 4) Vinyl Chloride            | 2.247          | 62   | 85400               | 60.946  | ug/l   | 99       |
| 5) Bromomethane              | 2.650          | 94   | 67327               | 49.016  | ug/l   | 97       |
| 6) Chloroethane              | 2.796          | 64   | 57196               | 57.617  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 66862               | 56.188  | ug/l   | 95       |
| 8) Diethyl Ether             | 3.528          | 74   | 23525               | 63.224  | ug/l   | 76       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 40691               | 55.638  | ug/l   | 96       |
| 10) Methyl Iodide            | 4.088          | 142  | 41882               | 55.458  | ug/l   | 92       |
| 11) Tert butyl alcohol       | 4.948          | 59   | 18006               | 238.956 | ug/l # | 95       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 39149               | 57.663  | ug/l   | 90       |
| 13) Acrolein                 | 3.729          | 56   | 976                 | 39.350  | ug/l   | 90       |
| 14) Allyl chloride           | 4.485          | 41   | 57427               | 56.127  | ug/l # | 84       |
| 15) Acrylonitrile            | 5.161          | 53   | 54474               | 261.473 | ug/l   | 99       |
| 16) Acetone                  | 3.942          | 43   | 47170               | 305.037 | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.192          | 76   | 124274              | 56.028  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.473          | 43   | 43050               | 89.401  | ug/l # | 87       |
| 19) Methyl tert-butyl Ether  | 5.216          | 73   | 122260              | 59.996  | ug/l   | 97       |
| 20) Methylene Chloride       | 4.710          | 84   | 55341               | 66.765  | ug/l   | 90       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 49413               | 56.704  | ug/l   | 87       |
| 22) Diisopropyl ether        | 6.119          | 45   | 143476              | 58.369  | ug/l   | 90       |
| 23) Vinyl Acetate            | 6.058          | 43   | 173734m             | 106.848 | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 87239               | 59.337  | ug/l   | 98       |
| 25) 2-Butanone               | 6.984          | 43   | 76355               | 276.450 | ug/l # | 86       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 67198               | 49.617  | ug/l   | 94       |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 56843               | 57.865  | ug/l   | 87       |
| 28) Bromochloromethane       | 7.332          | 49   | 29904               | 59.258  | ug/l # | 90       |
| 29) Tetrahydrofuran          | 7.344          | 42   | 51647               | 275.281 | ug/l   | 89       |
| 30) Chloroform               | 7.502          | 83   | 93381               | 58.839  | ug/l   | 98       |
| 31) Cyclohexane              | 7.783          | 56   | 75336               | 51.837  | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 7.698          | 97   | 82196               | 57.087  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 71060               | 49.740  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.070          | 43   | 22688               | 30.615  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 73593               | 49.243  | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.185          | 83   | 86609               | 46.967  | ug/l   | 89       |
| 40) Benzene                  | 8.161          | 78   | 213765              | 51.890  | ug/l   | 97       |

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 MSVOA\_Y  
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 P035-SS001-1218-01MS

Manual Integrations  
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052022S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 20 23:50:52 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.313  | 41   | 16869m   | 44.112  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 64868    | 53.624  | ug/l   | 95       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 54808    | 39.775  | ug/l # | 88       |
| 44) Trichloroethene           | 8.941  | 130  | 55403    | 50.791  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 54261    | 54.854  | ug/l   | 97       |
| 46) Dibromomethane            | 9.301  | 93   | 33407    | 53.113  | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.496  | 83   | 77224    | 53.722  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.295  | 41   | 36383    | 59.131  | ug/l # | 87       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 8258     | 982.155 | ug/l # | 80       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 190717   | 250.086 | ug/l   | 93       |
| 52) Toluene                   | 10.246 | 92   | 146679   | 50.949  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 77228    | 50.592  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 82673    | 50.379  | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 45791    | 52.037  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 38258    | 34.006  | ug/l   | 87       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 77404    | 53.923  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 136771   | 281.002 | ug/l   | 95       |
| 59) 2-Hexanone                | 10.831 | 43   | 127778   | 244.722 | ug/l   | 92       |
| 60) Dibromochloromethane      | 10.984 | 129  | 55947    | 52.448  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 44932    | 51.528  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.715 | 164  | 68355    | 68.162  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.514 | 112  | 154826   | 48.960  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 58684    | 50.680  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.593 | 91   | 280873   | 49.285  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 231186   | 99.930  | ug/l   | 92       |
| 69) o-Xylene                  | 12.026 | 106  | 109669   | 51.048  | ug/l   | 90       |
| 70) Styrene                   | 12.044 | 104  | 187848   | 50.845  | ug/l   | 95       |
| 71) Bromoform                 | 12.209 | 173  | 37324    | 48.625  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.331 | 105  | 286802   | 48.635  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.142 | 43   | 34233    | 25.161  | ug/l # | 87       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 57322    | 47.188  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 42860m   | 50.608  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 66612    | 48.729  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.672 | 91   | 347170   | 50.956  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 190856   | 48.565  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 241198   | 48.798  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 17494    | 42.397  | ug/l   | 87       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 206218   | 49.060  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 207921   | 47.415  | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 245640   | 50.062  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 323287   | 48.185  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 263345   | 47.069  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 134974   | 46.288  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 137181   | 46.826  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 225311   | 44.019  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.959 | 117  | 50187    | 47.866  | ug/l   | 85       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 122668   | 47.656  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 8754     | 46.417  | ug/l   | 86       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 52189    | 36.943  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 27865    | 36.191  | ug/l   | 98       |
| 95) Naphthalene               | 15.239 | 128  | 115775   | 40.796  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 46957    | 38.251  | ug/l   | 98       |

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Quant Time: May 24 07:50:28 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052022S.M  
Quant Title : SW846 8260  
QLast Update : Fri May 20 23:50:52 2022  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

