

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022322\  
 Data File : VY007601.D  
 Acq On : 23 Feb 2022 16:30  
 Operator : SY/MD  
 Sample : VY0223SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0223SBS01

Quant Time: Feb 24 08:23:30 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022322S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 24 07:13:58 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/24/2022  
 Supervised By : Mahesh Dadoda 02/24/2022

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 71899               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 115412              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 109186              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 53676               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.136          | 65   | 42124               | 52.665  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 105.340% |         |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 37343               | 51.279  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 102.560% |         |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 120073              | 44.977  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 89.960%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 44648               | 48.487  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 96.980%  |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 19368               | 21.780  | ug/l   | 94       |
| 3) Chloromethane             | 2.113          | 50   | 19549               | 22.658  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.253          | 62   | 21799               | 20.667  | ug/l   | 97       |
| 5) Bromomethane              | 2.643          | 94   | 15104               | 21.485  | ug/l   | 94       |
| 6) Chloroethane              | 2.790          | 64   | 13680               | 20.385  | ug/l   | 92       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 42219               | 20.750  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.527          | 74   | 11614               | 22.371  | ug/l   | 59       |
| 9) 1,1,2-Trichlorotrifluo... | 3.893          | 101  | 17697               | 20.246  | ug/l   | 95       |
| 10) Methyl Iodide            | 4.088          | 142  | 20410               | 19.131  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.954          | 59   | 9622                | 119.442 | ug/l # | 94       |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 17143               | 21.108  | ug/l # | 72       |
| 13) Acrolein                 | 3.723          | 56   | 12546               | 121.875 | ug/l   | 99       |
| 14) Allyl chloride           | 4.478          | 41   | 15946               | 21.239  | ug/l # | 64       |
| 15) Acrylonitrile            | 5.155          | 53   | 21293               | 118.928 | ug/l   | 98       |
| 16) Acetone                  | 3.942          | 43   | 21393               | 117.441 | ug/l   | 90       |
| 17) Carbon Disulfide         | 4.192          | 76   | 42070               | 20.844  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.478          | 43   | 9619                | 25.158  | ug/l # | 72       |
| 19) Methyl tert-butyl Ether  | 5.222          | 73   | 49934               | 22.877  | ug/l # | 83       |
| 20) Methylene Chloride       | 4.716          | 84   | 22405               | 24.525  | ug/l # | 72       |
| 21) trans-1,2-Dichloroethene | 5.222          | 96   | 17020               | 21.005  | ug/l # | 75       |
| 22) Diisopropyl ether        | 6.112          | 45   | 35919               | 22.768  | ug/l # | 83       |
| 23) Vinyl Acetate            | 6.057          | 43   | 133766              | 117.529 | ug/l # | 77       |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 25667               | 21.304  | ug/l   | 92       |
| 25) 2-Butanone               | 6.978          | 43   | 24995               | 121.028 | ug/l # | 72       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 27443               | 20.287  | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 19809               | 21.062  | ug/l   | 79       |
| 28) Bromochloromethane       | 7.332          | 49   | 8688                | 21.154  | ug/l # | 29       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 14655               | 121.928 | ug/l # | 53       |
| 30) Chloroform               | 7.502          | 83   | 32322               | 20.957  | ug/l   | 97       |
| 31) Cyclohexane              | 7.789          | 56   | 19617               | 21.389  | ug/l # | 68       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 32720               | 21.332  | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 21005               | 20.016  | ug/l   | 92       |
| 37) Ethyl Acetate            | 7.069          | 43   | 11369               | 24.064  | ug/l # | 93       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 30098               | 19.585  | ug/l   | 93       |
| 39) Methylcyclohexane        | 9.179          | 83   | 26778               | 21.258  | ug/l # | 84       |
| 40) Benzene                  | 8.155          | 78   | 61686               | 20.602  | ug/l   | 98       |

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 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0223SBS01

Quant Time: Feb 24 08:23:30 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022322S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 24 07:13:58 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/24/2022  
 Supervised By : Mahesh Dadoda 02/24/2022

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.319  | 41   | 6178m    | 23.711  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 23644    | 21.558  | ug/l   | 92       |
| 43) Isopropyl Acetate         | 8.270  | 43   | 22241    | 23.048  | ug/l # | 85       |
| 44) Trichloroethene           | 8.941  | 130  | 21351    | 21.015  | ug/l   | 87       |
| 45) 1,2-Dichloropropane       | 9.215  | 63   | 13487    | 21.166  | ug/l   | 91       |
| 46) Dibromomethane            | 9.307  | 93   | 12125    | 22.191  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.496  | 83   | 25965    | 21.100  | ug/l # | 96       |
| 48) Methyl methacrylate       | 9.289  | 41   | 8843     | 21.730  | ug/l # | 57       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 3466     | 498.561 | ug/l # | 67       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 55972    | 115.246 | ug/l   | 89       |
| 52) Toluene                   | 10.240 | 92   | 40526    | 19.844  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 25997    | 21.054  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 28037    | 21.505  | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 15212    | 21.616  | ug/l   | 93       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 19203    | 23.152  | ug/l # | 79       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 24400    | 22.597  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 45072    | 111.671 | ug/l # | 77       |
| 59) 2-Hexanone                | 10.831 | 43   | 39212    | 113.288 | ug/l   | 87       |
| 60) Dibromochloromethane      | 10.983 | 129  | 21358    | 22.438  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 15785    | 22.291  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.715 | 164  | 18565    | 20.740  | ug/l   | 92       |
| 65) Chlorobenzene             | 11.514 | 112  | 49601    | 20.841  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 19174    | 20.333  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 79330    | 19.875  | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.703 | 106  | 65259    | 41.748  | ug/l   | 90       |
| 69) o-Xylene                  | 12.026 | 106  | 32411    | 21.082  | ug/l   | 91       |
| 70) Styrene                   | 12.044 | 104  | 53967    | 20.985  | ug/l   | 98       |
| 71) Bromoform                 | 12.209 | 173  | 13164    | 21.075  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.325 | 105  | 81916    | 19.812  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.142 | 43   | 17963    | 22.309  | ug/l # | 86       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 16722    | 22.305  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.629 | 75   | 12557m   | 23.391  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 21645    | 20.082  | ug/l   | 82       |
| 78) n-propylbenzene           | 12.672 | 91   | 94505    | 19.791  | ug/l   | 93       |
| 79) 2-Chlorotoluene           | 12.757 | 91   | 53566    | 20.150  | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 69261    | 19.692  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 5731     | 22.954  | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 54642    | 20.156  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 61864    | 19.682  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 68793    | 19.955  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 87818    | 19.772  | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 75989    | 19.909  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 41210    | 20.583  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 39607    | 20.206  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 67501    | 19.642  | ug/l   | 96       |
| 90) Hexachloroethane          | 13.958 | 117  | 15251    | 19.823  | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 36780    | 20.222  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 3569     | 23.669  | ug/l   | 85       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 25278    | 19.932  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 14098    | 20.035  | ug/l   | 99       |
| 95) Naphthalene               | 15.233 | 128  | 57935    | 21.284  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 22966    | 20.961  | ug/l   | 99       |

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Quant Title : SW846 8260  
QLast Update : Thu Feb 24 07:13:58 2022  
Response via : Initial Calibration

| 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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