

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY121522\  
 Data File : VY011861.D  
 Acq On : 15 Dec 2022 10:31  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 12/19/2022  
 Supervised By :Mahesh Dadoda 12/19/2022

Quant Time: Dec 16 00:12:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y120922S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Dec 10 04:19:59 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 219288              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 333217              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 299163              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 147862              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 70744               | 46.988  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 93.980%  |         |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 77727               | 52.713  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 105.420% |         |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 239125              | 49.152  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 98.300%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 101751              | 52.937  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 105.880% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 44267               | 44.844  | ug/l   | 98       |
| 3) Chloromethane             | 2.119          | 50   | 57045               | 48.525  | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.253          | 62   | 67684               | 48.166  | ug/l   | 100      |
| 5) Bromomethane              | 2.656          | 94   | 46996               | 49.916  | ug/l   | 95       |
| 6) Chloroethane              | 2.802          | 64   | 48757               | 44.838  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 131629              | 43.666  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.534          | 74   | 45692               | 43.274  | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 80661               | 44.824  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.095          | 142  | 98896               | 46.939  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.954          | 59   | 45213               | 256.765 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 73005               | 44.985  | ug/l   | 100      |
| 13) Acrolein                 | 3.735          | 56   | 60444               | 195.529 | ug/l   | 100      |
| 14) Allyl chloride           | 4.485          | 41   | 123296              | 45.737  | ug/l   | 100      |
| 15) Acrylonitrile            | 5.168          | 53   | 130184              | 229.710 | ug/l   | 99       |
| 16) Acetone                  | 3.948          | 43   | 147543              | 246.408 | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.204          | 76   | 157994              | 42.630  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.479          | 43   | 60557               | 42.196  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.222          | 73   | 239204              | 47.075  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.716          | 84   | 105752              | 49.562  | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 5.229          | 96   | 84125               | 46.121  | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.119          | 45   | 291882              | 49.627  | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.064          | 43   | 842165              | 250.989 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.021          | 63   | 169139              | 47.324  | ug/l   | 99       |
| 25) 2-Butanone               | 6.984          | 43   | 180181              | 233.939 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 159056              | 47.302  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 106072              | 47.581  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.338          | 49   | 66478               | 51.091  | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 100257              | 228.699 | ug/l   | 100      |
| 30) Chloroform               | 7.509          | 83   | 186373              | 48.777  | ug/l   | 100      |
| 31) Cyclohexane              | 7.789          | 56   | 120745              | 47.100  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 164121              | 48.163  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 122089              | 48.283  | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.076          | 43   | 67553               | 45.696  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 147260              | 49.579  | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.185          | 83   | 132813              | 46.681  | ug/l   | 100      |
| 40) Benzene                  | 8.161          | 78   | 369280              | 48.885  | ug/l   | 99       |

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 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
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Reviewed By :Krupa Patel 12/19/2022  
 Supervised By :Mahesh Dadoda 12/19/2022

Quant Time: Dec 16 00:12:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y120922S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Dec 10 04:19:59 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 41) Methacrylonitrile         | 7.320  | 41   | 40192m   | 53.857  | ug/l  |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 114050   | 48.823  | ug/l  | 100      |
| 43) Isopropyl Acetate         | 8.277  | 43   | 124939   | 46.609  | ug/l  | 99       |
| 44) Trichloroethene           | 8.941  | 130  | 102270   | 48.340  | ug/l  | 97       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 95969    | 49.086  | ug/l  | 99       |
| 46) Dibromomethane            | 9.307  | 93   | 53075    | 48.496  | ug/l  | 100      |
| 47) Bromodichloromethane      | 9.496  | 83   | 142128   | 50.268  | ug/l  | 98       |
| 48) Methyl methacrylate       | 9.295  | 41   | 56617    | 47.915  | ug/l  | 99       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 14377    | 948.255 | ug/l  | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 362728   | 245.577 | ug/l  | 99       |
| 52) Toluene                   | 10.246 | 92   | 241003   | 50.185  | ug/l  | 99       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 139033   | 49.230  | ug/l  | 98       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 155891   | 49.129  | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 81724    | 50.522  | ug/l  | 98       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 103785   | 49.702  | ug/l  | 100      |
| 57) 1,3-Dichloropropane       | 10.795 | 76   | 132950   | 49.307  | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 235451   | 243.167 | ug/l  | 99       |
| 59) 2-Hexanone                | 10.831 | 43   | 264968   | 251.077 | ug/l  | 99       |
| 60) Dibromochloromethane      | 10.984 | 129  | 102496   | 50.590  | ug/l  | 99       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 70402    | 48.042  | ug/l  | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 103708   | 48.997  | ug/l  | 98       |
| 65) Chlorobenzene             | 11.520 | 112  | 265546   | 49.263  | ug/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 106578   | 50.966  | ug/l  | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 476161   | 50.133  | ug/l  | 100      |
| 68) m/p-Xylenes               | 11.703 | 106  | 364332   | 100.163 | ug/l  | 99       |
| 69) o-Xylene                  | 12.032 | 106  | 175432   | 50.599  | ug/l  | 99       |
| 70) Styrene                   | 12.044 | 104  | 304589   | 51.473  | ug/l  | 99       |
| 71) Bromoform                 | 12.209 | 173  | 64467    | 49.980  | ug/l  | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 483407   | 50.460  | ug/l  | 100      |
| 74) N-amyl acetate            | 12.148 | 43   | 109729   | 47.639  | ug/l  | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 89279    | 47.853  | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 75789m   | 50.662  | ug/l  |          |
| 77) Bromobenzene              | 12.611 | 156  | 110581   | 49.438  | ug/l  | 99       |
| 78) n-propylbenzene           | 12.672 | 91   | 574949   | 50.080  | ug/l  | 100      |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 325599   | 49.693  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.813 | 105  | 409128   | 50.526  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 31320    | 47.508  | ug/l  | 99       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 330902   | 48.691  | ug/l  | 99       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 366619   | 51.996  | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 404476   | 50.732  | ug/l  | 98       |
| 85) sec-Butylbenzene          | 13.258 | 105  | 530306   | 50.503  | ug/l  | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 447482   | 51.202  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 222199   | 49.363  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 218989   | 48.950  | ug/l  | 99       |
| 89) n-Butylbenzene            | 13.697 | 91   | 402099   | 50.612  | ug/l  | 99       |
| 90) Hexachloroethane          | 13.965 | 117  | 85794    | 49.402  | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 197979   | 48.876  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 14867    | 45.705  | ug/l  | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 116068   | 49.129  | ug/l  | 99       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 73335    | 48.855  | ug/l  | 99       |
| 95) Naphthalene               | 15.239 | 128  | 223794   | 48.908  | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 99751    | 48.881  | ug/l  | 99       |

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ALS Vial : 2 Sample Multiplier: 1

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ClientSampleId :  
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Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 12/19/2022  
Supervised By :Mahesh Dadoda 12/19/2022

Quant Time: Dec 16 00:12:34 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y120922S.M  
Quant Title : SW846 8260  
QLast Update : Sat Dec 10 04:19:59 2022  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

