

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY053123\  
 Data File : VY013954.D  
 Acq On : 31 May 2023 22:25  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 06/01/2023  
 Supervised By :Mahesh Dadoda 06/01/2023

Quant Time: Jun 01 03:33:10 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052323S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 24 05:25:47 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 225834              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 367632              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 350349              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 184129              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.149          | 65   | 155453              | 59.499  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 119.000% |         |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 125410              | 52.822  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 105.640% |         |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 422142              | 46.782  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 93.560%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 161058              | 53.696  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 107.400% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 97806               | 47.281  | ug/l   | 98       |
| 3) Chloromethane             | 2.113          | 50   | 123720              | 49.093  | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.253          | 62   | 116748              | 45.300  | ug/l   | 99       |
| 5) Bromomethane              | 2.656          | 94   | 100071              | 48.862  | ug/l   | 99       |
| 6) Chloroethane              | 2.796          | 64   | 81407               | 48.475  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 195774              | 45.136  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.534          | 74   | 81748               | 61.446  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 3.906          | 101  | 105783              | 44.988  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.101          | 142  | 132788              | 47.569  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 4.979          | 59   | 137572              | 687.349 | ug/l # | 87       |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 100506              | 45.498  | ug/l   | 93       |
| 13) Acrolein                 | 3.735          | 56   | 104744              | 347.914 | ug/l   | 98       |
| 14) Allyl chloride           | 4.485          | 41   | 195155              | 48.391  | ug/l   | 99       |
| 15) Acrylonitrile            | 5.174          | 53   | 257442              | 377.407 | ug/l   | 100      |
| 16) Acetone                  | 3.960          | 43   | 233344              | 300.918 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.204          | 76   | 288258              | 43.716  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.485          | 43   | 196419              | 73.012  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.235          | 73   | 389415              | 64.596  | ug/l   | 100      |
| 20) Methylene Chloride       | 4.723          | 84   | 152935              | 55.924  | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 5.235          | 96   | 117938              | 49.114  | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.131          | 45   | 451712              | 58.011  | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.070          | 43   | 1511390             | 333.255 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.027          | 63   | 230005              | 50.597  | ug/l   | 100      |
| 25) 2-Butanone               | 6.997          | 43   | 351586              | 371.569 | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 6.990          | 77   | 183258              | 44.755  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.997          | 96   | 145799              | 54.048  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.344          | 49   | 67530               | 50.612  | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.356          | 42   | 241868              | 428.133 | ug/l   | 99       |
| 30) Chloroform               | 7.515          | 83   | 249621              | 54.163  | ug/l   | 99       |
| 31) Cyclohexane              | 7.795          | 56   | 169022              | 42.106  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 202006              | 48.046  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 159801              | 44.190  | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.082          | 43   | 166076              | 75.290  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.911          | 117  | 183025              | 44.505  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.191          | 83   | 180832              | 42.700  | ug/l   | 99       |
| 40) Benzene                  | 8.167          | 78   | 511928              | 49.288  | ug/l   | 99       |

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 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Jun 01 03:33:10 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052323S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 24 05:25:47 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 06/01/2023  
 Supervised By :Mahesh Dadoda 06/01/2023

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.314  | 41   | 70866m   | 58.881   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 197087   | 57.955   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 278955   | 69.398   | ug/l   | 99       |
| 44) Trichloroethene           | 8.947  | 130  | 129471   | 46.269   | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 139183   | 52.310   | ug/l   | 99       |
| 46) Dibromomethane            | 9.313  | 93   | 89951    | 59.030   | ug/l   | 100      |
| 47) Bromodichloromethane      | 9.502  | 83   | 203032   | 54.673   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.301  | 41   | 126895   | 67.228   | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.313  | 88   | 29690    | 1657.844 | ug/l # | 99       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 824766   | 385.020  | ug/l   | 99       |
| 52) Toluene                   | 10.252 | 92   | 313768   | 49.546   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 214575   | 56.764   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 226684   | 53.529   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 124026   | 60.498   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 183272   | 66.971   | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.795 | 76   | 208233   | 59.641   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.789  | 63   | 231461   | 265.076  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.837 | 43   | 594383   | 390.083  | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.990 | 129  | 150839   | 58.165   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 122974   | 63.057   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.728 | 164  | 117869   | 45.470   | ug/l   | 93       |
| 65) Chlorobenzene             | 11.520 | 112  | 353017   | 48.076   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 144007   | 50.814   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.599 | 91   | 603805   | 45.694   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.703 | 106  | 468767   | 93.740   | ug/l   | 100      |
| 69) o-Xylene                  | 12.032 | 106  | 228135   | 48.431   | ug/l   | 100      |
| 70) Styrene                   | 12.050 | 104  | 401810   | 50.357   | ug/l   | 99       |
| 71) Bromoform                 | 12.209 | 173  | 109981   | 59.376   | ug/l   | 98       |
| 73) Isopropylbenzene          | 12.331 | 105  | 576855   | 42.092   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.148 | 43   | 246015   | 59.707   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 165665   | 58.395   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 118763m  | 54.701   | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 157779   | 46.921   | ug/l   | 97       |
| 78) n-propylbenzene           | 12.672 | 91   | 715705   | 42.273   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 423144   | 44.744   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.819 | 105  | 499600   | 44.164   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 57372    | 57.360   | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 441795   | 45.198   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.081 | 119  | 426772   | 43.315   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 506838   | 45.643   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.258 | 105  | 621871   | 42.490   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 520883   | 43.060   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 299299   | 46.083   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 300988   | 46.549   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.697 | 91   | 490093   | 42.248   | ug/l   | 99       |
| 90) Hexachloroethane          | 13.965 | 117  | 104702   | 42.156   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 277531   | 48.082   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 31633    | 63.643   | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 170952   | 47.775   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 91200    | 40.423   | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 409649   | 51.935   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 159048   | 49.982   | ug/l   | 100      |

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Sample : VSTDCCC050  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 06/01/2023  
Supervised By :Mahesh Dadoda 06/01/2023

Quant Time: Jun 01 03:33:10 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052323S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 24 05:25:47 2023  
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

Reviewed By :Krupa Patel 06/01/2023  
Supervised By :Mahesh Dadoda 06/01/2023

TIC: VY013954.D\data.ms

Abundance

Time-->

2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00

2000000  
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1800000  
1700000  
1600000  
1500000  
1400000  
1300000  
1200000  
1100000  
1000000  
900000  
800000  
700000  
600000  
500000  
400000  
300000  
200000  
100000  
0

Chlorodifluoromethane, T  
Chloromethane, P  
Vinyl Chloride, C  
Bromomethane, T  
Chloroethane, T  
Trichlorofluoromethane, T  
Diethyl Ether, T  
Acrolein, T  
Acetone, T  
1,1,2-Trichloroethane, T  
Methyl Carbon Disulfide, T  
Methyl acetate, T  
Methylene Chloride, T  
Tert butyl alcohol, T  
Acetonitrile, T  
Methyl 1,2-Dichloroethane, T  
1,1-Dichloroethane, P  
Vinyl Acetate, T  
Isopropyl ether, T  
2,3-Dichloropropane, T  
Ethyl Acetate, T  
Methacrylonitrile, T  
Bromochloromethane, T  
Chloroform, C  
1,1,2-Trichloroethane, T  
1,1,2,2-Tetrachloroethane, T  
1,2-Dichloroethane, T  
1,2-Dibromoethane, T  
1,4-Difluorobenzene, I  
Trichloroethene, TM  
1,2-Dichloroethane, T  
1,2-Dibromoethane, T  
Bromodichloromethane, T  
2-Chloroethyl Vinyl ether, T  
cis-1,3-Dichloropropene, T  
Toluene-d8, S  
4-Methyl-2-Pentanone, T  
Ethyl 2-Bromochloropropene, T  
1,1,2-Trichloroethane, T  
1,3-Dichloropropane, T  
Dibromochloromethane, T  
1,2-Dibromoethane, T  
Chlorobenzene, T  
Ethyl Benzene, T  
n-Propyl Chloride, T  
Styrene, T  
o-Xylene, T  
Isopropylbenzene, T  
4-Bromofluorobenzene, S  
Bromobenzene, T  
1,2,3-Trichlorobenzene, T  
1,3,5-Trimethylbenzene, T  
2-Chlorotoluene, T  
tert-Butylbenzene, T  
sec-Butylbenzene, T  
1,2,4-Trimethylbenzene, T  
1,2-Dichlorobenzene, T  
1,4-Dichlorobenzene, T  
1,2-Dichlorobenzene, T  
Butylbenzene, T  
Hexachloroethane, T  
1,2-Dibromo-3-Chloropropane, T  
1,2,4-Trichlorobenzene, T  
Hexachlorobenzene, T  
Naphthalene, I  
1,2,3-Trichlorobenzene, T