

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD040122\  
 Data File : VD072495.D  
 Acq On : 01 Apr 2022 11:34  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 04/04/2022  
 Supervised By : Mahesh Dadoda 04/04/2022

Quant Time: Apr 02 02:35:22 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 30 02:44:36 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.973          | 168  | 413723     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 662235     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 612823     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567         | 152  | 312413     | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 214267     | 42.812  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 85.620% |        |          |
| 35) Dibromofluoromethane     | 7.908          | 113  | 230584     | 44.804  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 89.600% |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 803604     | 44.920  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 89.840% |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 315094     | 45.099  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 90.200% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.985          | 85   | 176679     | 53.809  | ug/l   | 99       |
| 3) Chloromethane             | 2.209          | 50   | 163946     | 53.983  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.350          | 62   | 180966     | 51.807  | ug/l   | 99       |
| 5) Bromomethane              | 2.762          | 94   | 123300     | 52.686  | ug/l   | 98       |
| 6) Chloroethane              | 2.920          | 64   | 125101     | 55.927  | ug/l   | 91       |
| 7) Trichlorofluoromethane    | 3.267          | 101  | 398644     | 55.935  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.709          | 74   | 109965     | 51.921  | ug/l   | 85       |
| 9) 1,1,2-Trichlorotrifluo... | 4.091          | 101  | 254903     | 53.629  | ug/l   | 96       |
| 10) Methyl Iodide            | 4.297          | 142  | 225789     | 50.891  | ug/l   | 100      |
| 11) Tert butyl alcohol       | 5.209          | 59   | 64142      | 242.688 | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 4.067          | 96   | 212056     | 57.066  | ug/l   | 87       |
| 13) Acrolein                 | 3.914          | 56   | 21679      | 184.839 | ug/l   | 99       |
| 14) Allyl chloride           | 4.714          | 41   | 313450     | 48.081  | ug/l # | 91       |
| 15) Acrylonitrile            | 5.414          | 53   | 263634     | 248.903 | ug/l   | 95       |
| 16) Acetone                  | 4.150          | 43   | 236081     | 252.973 | ug/l   | 94       |
| 17) Carbon Disulfide         | 4.409          | 76   | 435189     | 53.780  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.709          | 43   | 115424     | 43.902  | ug/l # | 89       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 556778     | 51.334  | ug/l   | 95       |
| 20) Methylene Chloride       | 4.956          | 84   | 258430     | 46.516  | ug/l # | 84       |
| 21) trans-1,2-Dichloroethene | 5.473          | 96   | 234212     | 51.614  | ug/l   | 88       |
| 22) Diisopropyl ether        | 6.361          | 45   | 765823     | 51.295  | ug/l # | 90       |
| 23) Vinyl Acetate            | 6.303          | 43   | 2002943    | 249.442 | ug/l # | 92       |
| 24) 1,1-Dichloroethane       | 6.256          | 63   | 473009     | 52.577  | ug/l   | 99       |
| 25) 2-Butanone               | 7.208          | 43   | 323061     | 250.303 | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 7.203          | 77   | 426015     | 53.313  | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 7.203          | 96   | 294087     | 52.124  | ug/l   | 91       |
| 28) Bromochloromethane       | 7.538          | 49   | 184629     | 47.896  | ug/l # | 76       |
| 29) Tetrahydrofuran          | 7.555          | 42   | 190397     | 244.337 | ug/l # | 85       |
| 30) Chloroform               | 7.703          | 83   | 518620     | 51.246  | ug/l   | 100      |
| 31) Cyclohexane              | 7.979          | 56   | 354297     | 54.140  | ug/l   | 85       |
| 32) 1,1,1-Trichloroethane    | 7.897          | 97   | 473239     | 55.133  | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 355787     | 54.005  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.285          | 43   | 137979     | 50.598  | ug/l # | 91       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 412454     | 58.173  | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.349          | 83   | 401482     | 52.278  | ug/l   | 93       |
| 40) Benzene                  | 8.344          | 78   | 1013110    | 56.367  | ug/l   | 97       |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
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Reviewed By : John Carlone 04/04/2022  
 Supervised By : Mahesh Dadoda 04/04/2022

Quant Time: Apr 02 02:35:22 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 30 02:44:36 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.514  | 41   | 86356    | 54.047   | ug/l # | 86       |
| 42) 1,2-Dichloroethane        | 8.414  | 62   | 296045   | 53.888   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.444  | 43   | 271021   | 51.812   | ug/l # | 90       |
| 44) Trichloroethene           | 9.108  | 130  | 285458   | 55.943   | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.379  | 63   | 270797   | 54.161   | ug/l   | 99       |
| 46) Dibromomethane            | 9.467  | 93   | 145489   | 55.463   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.655  | 83   | 405475   | 53.805   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.449  | 41   | 136102   | 53.593   | ug/l # | 86       |
| 49) 1,4-Dioxane               | 9.455  | 88   | 32070    | 1027.760 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 731799   | 260.728  | ug/l   | 91       |
| 52) Toluene                   | 10.397 | 92   | 684280   | 57.308   | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 358482   | 54.588   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 421017   | 54.225   | ug/l # | 87       |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 210753   | 52.996   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 246393   | 50.380   | ug/l # | 81       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 345585   | 52.565   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.932  | 63   | 503697   | 256.549  | ug/l   | 93       |
| 59) 2-Hexanone                | 10.979 | 43   | 523362   | 274.205  | ug/l   | 91       |
| 60) Dibromochloromethane      | 11.132 | 129  | 273980   | 53.409   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 196763   | 55.726   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.867 | 164  | 226607   | 56.596   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.661 | 112  | 750311   | 54.762   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.732 | 131  | 292437   | 53.386   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.738 | 91   | 1342845  | 56.169   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.843 | 106  | 1036661  | 114.297  | ug/l   | 99       |
| 69) o-Xylene                  | 12.173 | 106  | 493561   | 56.401   | ug/l   | 96       |
| 70) Styrene                   | 12.185 | 104  | 869692   | 56.390   | ug/l   | 97       |
| 71) Bromoform                 | 12.349 | 173  | 154498   | 53.204   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.473 | 105  | 1388650  | 55.038   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.279 | 43   | 270896   | 51.171   | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 236953   | 49.582   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 177700m  | 52.152   | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 296821   | 52.486   | ug/l   | 93       |
| 78) n-propylbenzene           | 12.808 | 91   | 1681916  | 55.258   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 954654   | 53.631   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 1172812  | 54.275   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 74787    | 53.858   | ug/l   | 88       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 985879   | 53.179   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.214 | 119  | 1027744  | 54.939   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 1142570  | 54.072   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.390 | 105  | 1554752  | 55.176   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 1272827  | 55.263   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 617442   | 52.691   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 619400   | 52.444   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.832 | 91   | 1216979  | 55.466   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.096 | 117  | 252837   | 53.623   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 546144   | 52.841   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.490 | 75   | 37062    | 52.438   | ug/l   | 85       |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 342296   | 53.430   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.255 | 225  | 194360   | 54.162   | ug/l   | 99       |
| 95) Naphthalene               | 15.384 | 128  | 637459   | 51.209   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 301665   | 53.951   | ug/l   | 100      |

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ALS Vial : 2 Sample Multiplier: 1

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MSVOA\_D  
ClientSampleId :  
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Manual Integrations  
APPROVED

Reviewed By :John Carlone 04/04/2022  
Supervised By :Mahesh Dadoda 04/04/2022

Quant Time: Apr 02 02:35:22 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 30 02:44:36 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

