

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051722\  
 Data File : VD073057.D  
 Acq On : 17 May 2022 12:39  
 Operator : VA/SY  
 Sample : VSTDICC150  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC150

Quant Time: May 18 04:47:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051722S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 18 04:27:31 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 05/18/2022  
 Supervised By : Mahesh Dadoda 05/18/2022

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Pentafluorobenzene        | 7.973          | 168  | 306465               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 513051               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.632         | 117  | 516276               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 247654               | 50.000  | ug/l   | 0.00     |
|                              |                |      |                      |         |        |          |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 565562               | 147.567 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 295.140%# |         |        |          |
| 35) Dibromofluoromethane     | 7.908          | 113  | 538765               | 149.566 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 299.140%# |         |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 2045492              | 156.526 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 313.060%# |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 748805               | 158.203 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 316.400%# |         |        |          |
|                              |                |      |                      |         |        |          |
| Target Compounds             |                |      |                      |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.985          | 85   | 515294               | 134.464 | ug/l   | 99       |
| 3) Chloromethane             | 2.209          | 50   | 567845               | 143.733 | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.344          | 62   | 527462               | 145.170 | ug/l   | 98       |
| 5) Bromomethane              | 2.738          | 94   | 340464               | 131.929 | ug/l   | 95       |
| 6) Chloroethane              | 2.903          | 64   | 325938               | 144.054 | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.262          | 101  | 967098               | 145.448 | ug/l   | 97       |
| 8) Diethyl Ether             | 3.709          | 74   | 305821               | 168.088 | ug/l   | 91       |
| 9) 1,1,2-Trichlorotrifluo... | 4.091          | 101  | 571617               | 145.174 | ug/l   | 96       |
| 10) Methyl Iodide            | 4.297          | 142  | 721852               | 181.497 | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.214          | 59   | 233121               | 393.248 | ug/l   | 96       |
| 12) 1,1-Dichloroethene       | 4.062          | 96   | 549619               | 154.363 | ug/l   | 91       |
| 13) Acrolein                 | 3.920          | 56   | 282224               | 878.933 | ug/l   | 98       |
| 14) Allyl chloride           | 4.709          | 41   | 931512               | 165.130 | ug/l   | 92       |
| 15) Acrylonitrile            | 5.409          | 53   | 713625               | 818.381 | ug/l   | 97       |
| 16) Acetone                  | 4.156          | 43   | 518703               | 747.884 | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.403          | 76   | 1766046              | 148.093 | ug/l   | 98       |
| 18) Methyl Acetate           | 4.709          | 43   | 324259               | 148.091 | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 1417746              | 170.263 | ug/l   | 100      |
| 20) Methylene Chloride       | 4.956          | 84   | 657704               | 130.657 | ug/l   | 88       |
| 21) trans-1,2-Dichloroethene | 5.467          | 96   | 651745               | 153.882 | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.361          | 45   | 1987118              | 164.114 | ug/l # | 91       |
| 23) Vinyl Acetate            | 6.297          | 43   | 5713430              | 873.459 | ug/l # | 94       |
| 24) 1,1-Dichloroethane       | 6.261          | 63   | 1139353              | 151.251 | ug/l   | 99       |
| 25) 2-Butanone               | 7.203          | 43   | 842630               | 802.330 | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 7.203          | 77   | 977846               | 153.327 | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.208          | 96   | 732739               | 156.883 | ug/l   | 93       |
| 28) Bromochloromethane       | 7.544          | 49   | 409796               | 158.813 | ug/l # | 83       |
| 29) Tetrahydrofuran          | 7.555          | 42   | 573913               | 849.246 | ug/l   | 92       |
| 30) Chloroform               | 7.702          | 83   | 1200620              | 148.960 | ug/l   | 98       |
| 31) Cyclohexane              | 7.979          | 56   | 1054068              | 152.687 | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 7.897          | 97   | 1041161              | 150.780 | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 907350               | 154.590 | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.291          | 43   | 406458               | 164.892 | ug/l # | 95       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 925524               | 154.127 | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.349          | 83   | 1165551              | 170.299 | ug/l   | 98       |
| 40) Benzene                  | 8.344          | 78   | 2599960              | 154.919 | ug/l   | 98       |

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 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC150

Quant Time: May 18 04:47:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051722S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 18 04:27:31 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/18/2022  
 Supervised By : Mahesh Dadoda 05/18/2022

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.514  | 41   | 239631   | 172.399  | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 744585   | 152.423  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.444  | 43   | 785690   | 171.439  | ug/l # | 96       |
| 44) Trichloroethene           | 9.108  | 130  | 701725   | 154.583  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.379  | 63   | 668325   | 153.344  | ug/l   | 98       |
| 46) Dibromomethane            | 9.467  | 93   | 370536   | 153.752  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.655  | 83   | 932374   | 152.327  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.449  | 41   | 406054   | 178.624  | ug/l   | 91       |
| 49) 1,4-Dioxane               | 9.455  | 88   | 82012    | 3268.669 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 1994210  | 833.826  | ug/l   | 93       |
| 52) Toluene                   | 10.396 | 92   | 1698921  | 159.447  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.608 | 75   | 932523   | 167.047  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.079 | 75   | 1064369  | 161.713  | ug/l   | 89       |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 505249   | 153.598  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.649 | 69   | 673007   | 180.909  | ug/l   | 88       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 879063   | 157.058  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.932  | 63   | 1580999  | 936.225  | ug/l   | 96       |
| 59) 2-Hexanone                | 10.973 | 43   | 1365714  | 864.429  | ug/l   | 92       |
| 60) Dibromochloromethane      | 11.132 | 129  | 637049   | 155.883  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 502297   | 158.689  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.867 | 164  | 561920   | 148.560  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.661 | 112  | 1805635  | 154.247  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.732 | 131  | 674651   | 150.870  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.732 | 91   | 3294528  | 161.635  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.843 | 106  | 2544607  | 322.120  | ug/l   | 97       |
| 69) o-Xylene                  | 12.167 | 106  | 1210932  | 166.225  | ug/l   | 96       |
| 70) Styrene                   | 12.185 | 104  | 2087154  | 164.032  | ug/l   | 98       |
| 71) Bromoform                 | 12.349 | 173  | 367182   | 155.957  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.467 | 105  | 3177064  | 169.244  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.279 | 43   | 767574   | 174.968  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83   | 570305   | 154.104  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.767 | 75   | 408619m  | 144.227  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 711871   | 158.936  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.808 | 91   | 3877734  | 164.495  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 2222010  | 161.802  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 2633104  | 164.649  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.514 | 75   | 195242   | 167.221  | ug/l   | 89       |
| 82) 4-Chlorotoluene           | 12.990 | 91   | 2322638  | 159.804  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.208 | 119  | 2293101  | 169.282  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 2614984  | 164.355  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.390 | 105  | 3368338  | 163.816  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 2772723  | 165.785  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 1403522  | 152.460  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.579 | 146  | 1379228  | 151.612  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.826 | 91   | 2685515  | 165.112  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.096 | 117  | 541090   | 155.700  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.873 | 146  | 1227574  | 153.743  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.485 | 75   | 90261    | 156.910  | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 756846   | 166.132  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 385898   | 151.757  | ug/l   | 98       |
| 95) Naphthalene               | 15.384 | 128  | 1525745  | 184.885  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.573 | 180  | 665885   | 164.635  | ug/l   | 99       |

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ALS Vial : 8 Sample Multiplier: 1

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MSVOA\_D  
ClientSampleId :  
VSTDICC150

Manual Integrations  
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Reviewed By :John Carlone 05/18/2022  
Supervised By :Mahesh Dadoda 05/18/2022

Quant Time: May 18 04:47:19 2022  
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Quant Title : SW846 8260  
QLast Update : Wed May 18 04:27:31 2022  
Response via : Initial Calibration

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

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

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