

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD102621\  
 Data File : VD070836.D  
 Acq On : 26 Oct 2021 12:50  
 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: Oct 27 04:59:46 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D102621S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 27 04:55:36 2021  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Vimala Arumugam 10/27/2021  
 Supervised By :Mahesh Dadoda 10/27/2021

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Pentafluorobenzene        | 7.973          | 168  | 470778               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 741882               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.637         | 117  | 711262               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567         | 152  | 336152               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 642564               | 134.673 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 269.340%# |         |        |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 690547               | 141.205 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 282.400%# |         |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 2777266              | 151.251 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 302.500%# |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 920342               | 151.769 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 303.540%# |         |        |          |
| Target Compounds             |                |      |                      |         |        |          |
|                              |                |      |                      |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.985          | 85   | 591331               | 137.902 | ug/l   | 96       |
| 3) Chloromethane             | 2.208          | 50   | 849901               | 137.508 | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.350          | 62   | 953458               | 140.438 | ug/l   | 99       |
| 5) Bromomethane              | 2.738          | 94   | 608004               | 125.138 | ug/l   | 99       |
| 6) Chloroethane              | 2.908          | 64   | 560880               | 133.527 | ug/l   | 93       |
| 7) Trichlorofluoromethane    | 3.267          | 101  | 1121722              | 135.821 | ug/l   | 97       |
| 8) Diethyl Ether             | 3.703          | 74   | 366998               | 155.414 | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.091          | 101  | 720125               | 135.197 | ug/l   | 98       |
| 10) Methyl Iodide            | 4.297          | 142  | 902568               | 184.662 | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.226          | 59   | 172363               | 677.118 | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 4.067          | 96   | 714078               | 150.062 | ug/l   | 97       |
| 13) Acrolein                 | 3.926          | 56   | 178203               | 771.381 | ug/l   | 100      |
| 14) Allyl chloride           | 4.708          | 41   | 1231294              | 165.833 | ug/l   | 98       |
| 15) Acrylonitrile            | 5.420          | 53   | 864109               | 771.563 | ug/l   | 99       |
| 16) Acetone                  | 4.155          | 43   | 852992               | 781.158 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.408          | 76   | 2457459              | 147.202 | ug/l   | 98       |
| 18) Methyl Acetate           | 4.708          | 43   | 530845               | 140.315 | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 1619400              | 165.276 | ug/l   | 99       |
| 20) Methylene Chloride       | 4.961          | 84   | 847522               | 114.660 | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.467          | 96   | 835915               | 150.231 | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.361          | 45   | 2490164              | 161.588 | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.302          | 43   | 6133745              | 930.927 | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.261          | 63   | 1482650              | 142.767 | ug/l   | 99       |
| 25) 2-Butanone               | 7.208          | 43   | 1094524              | 802.968 | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 7.208          | 77   | 1179469              | 143.305 | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.208          | 96   | 935279               | 153.944 | ug/l   | 98       |
| 28) Bromochloromethane       | 7.544          | 49   | 576421               | 139.561 | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 663960               | 802.450 | ug/l   | 98       |
| 30) Chloroform               | 7.708          | 83   | 1439727              | 138.771 | ug/l   | 99       |
| 31) Cyclohexane              | 7.979          | 56   | 1445020              | 150.437 | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.902          | 97   | 1234855              | 139.048 | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 1181220              | 152.983 | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.291          | 43   | 446384               | 154.314 | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 1121907              | 146.353 | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.349          | 83   | 1508057              | 171.377 | ug/l   | 96       |
| 40) Benzene                  | 8.349          | 78   | 3375663              | 151.685 | ug/l   | 100      |

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 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC150

Quant Time: Oct 27 04:59:46 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D102621S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 27 04:55:36 2021  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Vimala Arumugam 10/27/2021  
 Supervised By :Mahesh Dadoda 10/27/2021

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 255111   | 168.623  | ug/l   | 87       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 818390   | 144.119  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.449  | 43   | 855756   | 160.079  | ug/l   | 97       |
| 44) Trichloroethene           | 9.108  | 130  | 859013   | 149.452  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 885357   | 149.249  | ug/l   | 98       |
| 46) Dibromomethane            | 9.473  | 93   | 422162   | 144.155  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.655  | 83   | 1086470  | 145.584  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.449  | 41   | 428278   | 166.333  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 96304    | 3081.094 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 2255309  | 805.036  | ug/l   | 99       |
| 52) Toluene                   | 10.396 | 92   | 2143819  | 158.337  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 1042871  | 157.594  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 1289528  | 159.406  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.796 | 97   | 595574   | 143.329  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 797857   | 175.541  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.937 | 76   | 1075945  | 154.568  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 1587878  | 808.587  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.979 | 43   | 1629371  | 815.060  | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.132 | 129  | 735283   | 149.996  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.243 | 107  | 577728   | 151.800  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.873 | 164  | 716752   | 148.795  | ug/l   | 99       |
| 65) Chlorobenzene             | 11.661 | 112  | 2184184  | 149.553  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.732 | 131  | 803871   | 149.525  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.737 | 91   | 4120166  | 163.530  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.843 | 106  | 3175142  | 322.868  | ug/l   | 100      |
| 69) o-Xylene                  | 12.173 | 106  | 1499824  | 168.747  | ug/l   | 100      |
| 70) Styrene                   | 12.184 | 104  | 2549857  | 166.827  | ug/l   | 99       |
| 71) Bromoform                 | 12.355 | 173  | 419088   | 144.893  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.473 | 105  | 3886527  | 172.879  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.279 | 43   | 839934   | 170.854  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 675326   | 147.365  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 516360m  | 170.813  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 865492   | 159.720  | ug/l   | 99       |
| 78) n-propylbenzene           | 12.808 | 91   | 4812346  | 168.177  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 2713963  | 165.076  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 3208466  | 169.418  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 204470   | 163.944  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 2799169  | 162.030  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.214 | 119  | 2718022  | 172.219  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 3166586  | 169.696  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.390 | 105  | 4149759  | 168.096  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 3423735  | 171.203  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 1718028  | 153.627  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.584 | 146  | 1680282  | 152.577  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.831 | 91   | 3270824  | 167.493  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.096 | 117  | 660920   | 150.592  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.878 | 146  | 1471474  | 154.607  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.490 | 75   | 97387    | 146.616  | ug/l   | 92       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 913912   | 165.062  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 558968   | 154.963  | ug/l   | 99       |
| 95) Naphthalene               | 15.384 | 128  | 1707695  | 184.767  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.578 | 180  | 793095   | 165.710  | ug/l   | 99       |

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 ALS Vial : 8 Sample Multiplier: 1

**Instrument :**  
 MSVOA\_D  
**ClientSampleId :**  
 VSTDICC150

**Manual Integrations**  
**APPROVED**

Reviewed By :Vimala Arumugam 10/27/2021  
 Supervised By :Mahesh Dadoda 10/27/2021

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

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

