

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD110921\  
 Data File : VD070949.D  
 Acq On : 09 Nov 2021 12:23  
 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: Nov 10 03:43:01 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D110921S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 10 03:40:32 2021  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Vimala Arumugam 11/15/2021  
 Supervised By :Mahesh Dadoda 11/16/2021

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.973  | 168  | 376797   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.861  | 114  | 676171   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.638 | 117  | 618638   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.561 | 152  | 269528   | 50.000 | ug/l  | 0.00     |

### System Monitoring Compounds

|                           |        |       |          |          |      |           |
|---------------------------|--------|-------|----------|----------|------|-----------|
| 33) 1,2-Dichloroethane-d4 | 8.326  | 65    | 646770   | 161.218  | ug/l | 0.00      |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 322.440%# |
| 35) Dibromofluoromethane  | 7.908  | 113   | 575542   | 150.843  | ug/l | 0.00      |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 301.680%# |
| 50) Toluene-d8            | 10.332 | 98    | 2207861  | 147.758  | ug/l | 0.00      |
| Spiked Amount             | 50.000 | Range | 49 - 140 | Recovery | =    | 295.520%# |
| 62) 4-Bromofluorobenzene  | 12.620 | 95    | 808980   | 150.363  | ug/l | 0.00      |
| Spiked Amount             | 50.000 | Range | 25 - 144 | Recovery | =    | 300.720%# |

### Target Compounds

|                              |       |     |         |         |        | Qvalue |
|------------------------------|-------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane   | 1.985 | 85  | 494164  | 153.503 | ug/l   | 98     |
| 3) Chloromethane             | 2.209 | 50  | 596543  | 155.725 | ug/l   | 100    |
| 4) Vinyl Chloride            | 2.344 | 62  | 599440  | 162.709 | ug/l   | 99     |
| 5) Bromomethane              | 2.738 | 94  | 370728  | 147.635 | ug/l   | 97     |
| 6) Chloroethane              | 2.903 | 64  | 385426  | 162.890 | ug/l   | 94     |
| 7) Trichlorofluoromethane    | 3.262 | 101 | 973890  | 164.255 | ug/l   | 95     |
| 8) Diethyl Ether             | 3.709 | 74  | 330922  | 168.643 | ug/l   | 92     |
| 9) 1,1,2-Trichlorotrifluo... | 4.091 | 101 | 590938  | 161.687 | ug/l   | 96     |
| 10) Methyl Iodide            | 4.297 | 142 | 727935  | 202.990 | ug/l   | 99     |
| 11) Tert butyl alcohol       | 5.220 | 59  | 224216  | 764.739 | ug/l   | 98     |
| 12) 1,1-Dichloroethene       | 4.061 | 96  | 579277  | 161.899 | ug/l   | 85     |
| 13) Acrolein                 | 3.914 | 56  | 68848   | 682.860 | ug/l   | 93     |
| 14) Allyl chloride           | 4.709 | 41  | 1246795 | 167.296 | ug/l # | 84     |
| 15) Acrylonitrile            | 5.414 | 53  | 801303  | 853.396 | ug/l   | 98     |
| 16) Acetone                  | 4.150 | 43  | 860039  | 855.246 | ug/l # | 88     |
| 17) Carbon Disulfide         | 4.403 | 76  | 1881230 | 162.833 | ug/l   | 99     |
| 18) Methyl Acetate           | 4.714 | 43  | 592700  | 172.208 | ug/l   | 93     |
| 19) Methyl tert-butyl Ether  | 5.479 | 73  | 1582889 | 171.369 | ug/l   | 99     |
| 20) Methylene Chloride       | 4.961 | 84  | 687926  | 137.234 | ug/l   | 90     |
| 21) trans-1,2-Dichloroethene | 5.467 | 96  | 666253  | 162.459 | ug/l   | 86     |
| 22) Diisopropyl ether        | 6.361 | 45  | 2485953 | 167.787 | ug/l   | 94     |
| 23) Vinyl Acetate            | 6.303 | 43  | 6344535 | 891.777 | ug/l   | 97     |
| 24) 1,1-Dichloroethane       | 6.261 | 63  | 1321353 | 166.974 | ug/l   | 99     |
| 25) 2-Butanone               | 7.208 | 43  | 1119376 | 878.928 | ug/l # | 88     |
| 26) 2,2-Dichloropropane      | 7.203 | 77  | 1124280 | 168.336 | ug/l   | 96     |
| 27) cis-1,2-Dichloroethene   | 7.208 | 96  | 767379  | 163.691 | ug/l   | 91     |
| 28) Bromochloromethane       | 7.544 | 49  | 537472  | 160.129 | ug/l   | 88     |
| 29) Tetrahydrofuran          | 7.561 | 42  | 686306  | 841.966 | ug/l   | 92     |
| 30) Chloroform               | 7.708 | 83  | 1276674 | 169.684 | ug/l   | 99     |
| 31) Cyclohexane              | 7.985 | 56  | 1252436 | 151.807 | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane    | 7.897 | 97  | 1102454 | 170.608 | ug/l   | 95     |
| 36) 1,1-Dichloropropene      | 8.108 | 75  | 981732  | 162.615 | ug/l   | 97     |
| 37) Ethyl Acetate            | 7.291 | 43  | 480762  | 174.545 | ug/l # | 94     |
| 38) Carbon Tetrachloride     | 8.097 | 117 | 935278  | 168.226 | ug/l   | 98     |
| 39) Methylcyclohexane        | 9.349 | 83  | 1241854 | 159.272 | ug/l   | 97     |
| 40) Benzene                  | 8.350 | 78  | 2740420 | 161.182 | ug/l   | 99     |

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 Sample : VSTDICC150  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC150

Manual Integrations  
 APPROVED

Reviewed By :Vimala Arumugam 11/15/2021  
 Supervised By :Mahesh Dadoda 11/16/2021

Quant Time: Nov 10 03:43:01 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D110921S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 10 03:40:32 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.514  | 41   | 286072   | 210.370  | ug/l # | 76       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 846165   | 175.710  | ug/l   | 95       |
| 43) Isopropyl Acetate         | 8.450  | 43   | 993022   | 170.353  | ug/l # | 89       |
| 44) Trichloroethene           | 9.108  | 130  | 704644   | 160.791  | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 758658   | 164.996  | ug/l   | 100      |
| 46) Dibromomethane            | 9.473  | 93   | 370467   | 169.273  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.655  | 83   | 988464   | 170.754  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.449  | 41   | 495708   | 173.348  | ug/l # | 82       |
| 49) 1,4-Dioxane               | 9.455  | 88   | 86028    | 3392.573 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 2401333  | 849.700  | ug/l   | 91       |
| 52) Toluene                   | 10.396 | 92   | 1729622  | 161.384  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 990798   | 169.728  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 1165940  | 169.376  | ug/l # | 80       |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 497757   | 165.479  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 730599   | 171.665  | ug/l # | 75       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 911081   | 166.791  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 1718637  | 776.763  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.979 | 43   | 1725426  | 838.350  | ug/l   | 90       |
| 60) Dibromochloromethane      | 11.132 | 129  | 616055   | 170.722  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 487750   | 166.698  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.873 | 164  | 558453   | 154.807  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.661 | 112  | 1792044  | 162.354  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.732 | 131  | 651054   | 166.182  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.738 | 91   | 3355770  | 160.537  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.849 | 106  | 2486348  | 318.252  | ug/l   | 95       |
| 69) o-Xylene                  | 12.173 | 106  | 1202523  | 161.823  | ug/l   | 95       |
| 70) Styrene                   | 12.185 | 104  | 2038180  | 161.987  | ug/l   | 95       |
| 71) Bromoform                 | 12.349 | 173  | 343737   | 168.249  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.467 | 105  | 3155208  | 162.495  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.279 | 43   | 937759   | 169.048  | ug/l # | 89       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 552061   | 165.182  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 365467m  | 448.206  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 678774   | 163.610  | ug/l   | 90       |
| 78) n-propylbenzene           | 12.808 | 91   | 3869826  | 160.844  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 2265184  | 165.121  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 2616023  | 163.631  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.514 | 75   | 187566   | 170.755  | ug/l # | 84       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 2329434  | 164.529  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.214 | 119  | 2230865  | 161.987  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 2571614  | 164.246  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.390 | 105  | 3305542  | 159.653  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 2680027  | 161.202  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 1298756  | 160.109  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 1303484  | 160.493  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.826 | 91   | 2688664  | 160.920  | ug/l   | 100      |
| 90) Hexachloroethane          | 14.096 | 117  | 546693   | 166.173  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 13.873 | 146  | 1147214  | 163.217  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.490 | 75   | 95913    | 174.980  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 722483   | 160.658  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 364764   | 160.830  | ug/l   | 99       |
| 95) Naphthalene               | 15.379 | 128  | 1436198  | 167.256  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.573 | 180  | 614834   | 162.605  | ug/l   | 99       |

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Sample : VSTDICC150  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICC150

Manual Integrations  
APPROVED

Reviewed By :Vimala Arumugam 11/15/2021  
Supervised By :Mahesh Dadoda 11/16/2021

Quant Time: Nov 10 03:43:01 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D110921S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 10 03:40:32 2021  
Response via : Initial Calibration

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

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

