

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD102722\  
 Data File : VD074659.D  
 Acq On : 27 Oct 2022 18:46  
 Operator : VA/SY  
 Sample : VSTDICC150  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC150

Quant Time: Oct 27 23:53:30 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D102722S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 27 23:51:06 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 10/31/2022  
 Supervised By :Mahesh Dadoda 10/31/2022

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Pentafluorobenzene        | 7.875          | 168  | 145164               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.781          | 114  | 236072               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 190673               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.516         | 152  | 90005                | 50.000  | ug/l   | 0.00     |
|                              |                |      |                      |         |        |          |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.228          | 65   | 172264               | 151.966 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 303.940%# |         |        |          |
| 35) Dibromofluoromethane     | 7.804          | 113  | 213055               | 143.915 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 287.820%# |         |        |          |
| 50) Toluene-d8               | 10.269         | 98   | 767768               | 155.924 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 311.840%# |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.569         | 95   | 219624               | 136.452 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 272.900%# |         |        |          |
|                              |                |      |                      |         |        |          |
| Target Compounds             |                |      |                      |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.928          | 85   | 173143               | 151.907 | ug/l   | 95       |
| 3) Chloromethane             | 2.146          | 50   | 244407               | 155.247 | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.281          | 62   | 302642               | 173.573 | ug/l   | 100      |
| 5) Bromomethane              | 2.664          | 94   | 234707               | 176.544 | ug/l   | 96       |
| 6) Chloroethane              | 2.822          | 64   | 205286               | 172.143 | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.169          | 101  | 362284               | 150.901 | ug/l   | 95       |
| 8) Diethyl Ether             | 3.587          | 74   | 108287               | 157.541 | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 3.963          | 101  | 226993               | 148.117 | ug/l   | 99       |
| 10) Methyl Iodide            | 4.158          | 142  | 333557               | 193.100 | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.058          | 59   | 60079                | 325.276 | ug/l # | 91       |
| 12) 1,1-Dichloroethene       | 3.934          | 96   | 239798               | 155.613 | ug/l   | 94       |
| 13) Acrolein                 | 3.793          | 56   | 79775                | 686.865 | ug/l   | 98       |
| 14) Allyl chloride           | 4.563          | 41   | 249956               | 151.685 | ug/l   | 99       |
| 15) Acrylonitrile            | 5.252          | 53   | 202498               | 730.066 | ug/l   | 99       |
| 16) Acetone                  | 4.022          | 43   | 152894               | 635.017 | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.263          | 76   | 710511               | 164.068 | ug/l   | 99       |
| 18) Methyl Acetate           | 4.563          | 43   | 95007                | 132.357 | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.316          | 73   | 453236               | 151.813 | ug/l   | 99       |
| 20) Methylene Chloride       | 4.799          | 84   | 251900               | 98.932  | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.310          | 96   | 263941               | 152.730 | ug/l   | 90       |
| 22) Diisopropyl ether        | 6.216          | 45   | 519814               | 154.352 | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.152          | 43   | 1166935m             | 804.808 | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.110          | 63   | 379807               | 146.539 | ug/l   | 98       |
| 25) 2-Butanone               | 7.081          | 43   | 217570               | 677.030 | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 7.075          | 77   | 341773               | 138.234 | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.081          | 96   | 291292               | 153.356 | ug/l   | 96       |
| 28) Bromochloromethane       | 7.422          | 49   | 128483               | 196.165 | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.446          | 42   | 135846               | 772.077 | ug/l   | 98       |
| 30) Chloroform               | 7.593          | 83   | 406069               | 145.276 | ug/l   | 99       |
| 31) Cyclohexane              | 7.875          | 56   | 332888               | 147.710 | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.793          | 97   | 374122               | 146.050 | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.004          | 75   | 322046               | 150.607 | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.169          | 43   | 97377                | 146.945 | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 7.993          | 117  | 316473               | 152.319 | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.275          | 83   | 407086               | 158.951 | ug/l   | 97       |
| 40) Benzene                  | 8.251          | 78   | 946606               | 150.172 | ug/l   | 99       |

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 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC150

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 10/31/2022  
 Supervised By :Mahesh Dadoda 10/31/2022

Quant Time: Oct 27 23:53:30 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D102722S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 27 23:51:06 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.399  | 41   | 54495    | 147.739  | ug/l   | 95       |
| 42) 1,2-Dichloroethane        | 8.328  | 62   | 212108   | 145.847  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.363  | 43   | 189769   | 153.637  | ug/l   | 98       |
| 44) Trichloroethene           | 9.028  | 130  | 283422   | 153.256  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 188765   | 136.192  | ug/l   | 95       |
| 46) Dibromomethane            | 9.393  | 93   | 108915   | 136.509  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.587  | 83   | 267061   | 135.932  | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.381  | 41   | 79311    | 139.817  | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.381  | 88   | 23783    | 3026.740 | ug/l # | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 427577   | 694.447  | ug/l   | 99       |
| 52) Toluene                   | 10.334 | 92   | 556265   | 142.471  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 249718   | 144.227  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 306814   | 139.959  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 149348   | 136.379  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.598 | 69   | 178208   | 149.181  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 241460   | 136.205  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 261196   | 981.058  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.922 | 43   | 295882   | 700.090  | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.075 | 129  | 182445   | 138.041  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 140213   | 139.550  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.810 | 164  | 203795   | 144.491  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.604 | 112  | 589625   | 147.331  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 206325   | 150.642  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.681 | 91   | 1080217  | 154.340  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.792 | 106  | 873867   | 311.943  | ug/l   | 97       |
| 69) o-Xylene                  | 12.122 | 106  | 410269   | 159.335  | ug/l   | 95       |
| 70) Styrene                   | 12.134 | 104  | 687843   | 158.812  | ug/l   | 99       |
| 71) Bromoform                 | 12.298 | 173  | 103629   | 144.635  | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.422 | 105  | 1045517  | 150.125  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.234 | 43   | 160177   | 155.035  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.669 | 83   | 155816   | 141.263  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.722 | 75   | 95197m   | 123.769  | ug/l   |          |
| 77) Bromobenzene              | 12.698 | 156  | 237832   | 151.232  | ug/l   | 97       |
| 78) n-propylbenzene           | 12.763 | 91   | 1230512  | 148.664  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.845 | 91   | 654116   | 146.499  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 851539   | 149.671  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 45034    | 147.847  | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 12.945 | 91   | 668786   | 145.089  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.163 | 119  | 768472   | 151.525  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 856891   | 153.428  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 1126759  | 148.747  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.457 | 119  | 985407   | 155.084  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 497521   | 151.424  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.534 | 146  | 465278   | 144.821  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.786 | 91   | 871916   | 150.757  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.051 | 117  | 162617   | 146.949  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.828 | 146  | 403275   | 146.958  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.439 | 75   | 21812    | 142.969  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 275580   | 152.370  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 144391   | 146.454  | ug/l   | 99       |
| 95) Naphthalene               | 15.328 | 128  | 515742   | 152.301  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.516 | 180  | 237588   | 154.123  | ug/l   | 99       |

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Instrument :  
MSVOA\_D  
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VSTDICC150

Manual Integrations  
APPROVED

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Quant Time: Oct 27 23:53:30 2022  
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Quant Title : SW846 8260  
QLast Update : Thu Oct 27 23:51:06 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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## Manual Integrations

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