

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD093020\  
 Data File : VD066982.D  
 Acq On : 30 Sep 2020 19:05  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 10/1/2020 2:41:59 PM

Quant Time: Oct 01 01:35:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 23 01:34:05 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|---------|--------|----------|
| 1) Pentafluorobenzene         | 7.98  | 168  | 415337   | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.86  | 114  | 685386   | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.64 | 117  | 633173   | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.58 | 152  | 304211   | 50.00   | ug/l   | 0.00     |
| System Monitoring Compounds   |       |      |          |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.33  | 65   | 182354   | 44.86   | ug/l   | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 89.72% |          |
| 35) Dibromofluoromethane      | 7.92  | 113  | 196323   | 45.02   | ug/l   | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 90.04% |          |
| 50) Toluene-d8                | 10.34 | 98   | 680543   | 45.81   | ug/l   | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 91.62% |          |
| 62) 4-Bromofluorobenzene      | 12.63 | 95   | 247484   | 48.66   | ug/l   | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 97.32% |          |
| Target Compounds              |       |      |          |         |        |          |
|                               |       |      |          |         | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.99  | 85   | 130518   | 44.417  | ug/l   | 94       |
| 3) Chloromethane              | 2.21  | 50   | 156724   | 41.069  | ug/l   | 98       |
| 4) Vinyl Chloride             | 2.35  | 62   | 156919   | 41.623  | ug/l   | 98       |
| 5) Bromomethane               | 2.77  | 94   | 119066   | 44.933  | ug/l   | 98       |
| 6) Chloroethane               | 2.92  | 64   | 101079   | 43.174  | ug/l   | 93       |
| 7) Trichlorofluoromethane     | 3.27  | 101  | 348020   | 44.948  | ug/l   | 94       |
| 8) Diethyl Ether              | 3.71  | 74   | 113206   | 57.593  | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10  | 101  | 209875   | 46.746  | ug/l   | 97       |
| 10) Methyl Iodide             | 4.30  | 142  | 191284   | 48.282  | ug/l   | 95       |
| 11) Tert butyl alcohol        | 5.22  | 59   | 71461    | 300.679 | ug/l   | 97       |
| 12) 1,1-Dichloroethene        | 4.07  | 96   | 200036   | 49.184  | ug/l   | 97       |
| 13) Acrolein                  | 3.93  | 56   | 73634    | 245.541 | ug/l   | 94       |
| 14) Allyl chloride            | 4.71  | 41   | 307414   | 51.475  | ug/l   | 96       |
| 15) Acrylonitrile             | 5.42  | 53   | 246045   | 282.455 | ug/l   | 99       |
| 16) Acetone                   | 4.16  | 43   | 179665   | 208.342 | ug/l   | 97       |
| 17) Carbon Disulfide          | 4.41  | 76   | 565255   | 45.460  | ug/l   | 98       |
| 18) Methyl Acetate            | 4.72  | 43   | 111954   | 58.825  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether   | 5.48  | 73   | 522108   | 59.113  | ug/l   | 97       |
| 20) Methylene Chloride        | 4.96  | 84   | 263362   | 57.455  | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene  | 5.47  | 96   | 246830   | 52.414  | ug/l   | 99       |
| 22) Diisopropyl ether         | 6.36  | 45   | 673209   | 54.825  | ug/l   | 96       |
| 23) Vinyl Acetate             | 6.31  | 43   | 1808678  | 271.069 | ug/l   | 98       |
| 24) 1,1-Dichloroethane        | 6.27  | 63   | 421919   | 51.362  | ug/l   | 97       |
| 25) 2-Butanone                | 7.21  | 43   | 283991   | 274.037 | ug/l   | 99       |
| 26) 2,2-Dichloropropane       | 7.21  | 77   | 347464   | 46.149  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene    | 7.21  | 96   | 283038   | 55.317  | ug/l   | 95       |
| 28) Bromochloromethane        | 7.55  | 49   | 175951   | 51.847  | ug/l   | 92       |
| 29) Tetrahydrofuran           | 7.56  | 42   | 188393   | 283.714 | ug/l   | 96       |
| 30) Chloroform                | 7.71  | 83   | 466047   | 52.631  | ug/l   | 100      |
| 31) Cyclohexane               | 7.98  | 56   | 327335   | 44.285  | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane     | 7.90  | 97   | 407779   | 50.907  | ug/l   | 98       |
| 36) 1,1-Dichloropropene       | 8.11  | 75   | 325669   | 47.895  | ug/l   | 98       |
| 37) Ethyl Acetate             | 7.30  | 43   | 134117   | 54.561  | ug/l # | 95       |
| 38) Carbon Tetrachloride      | 8.10  | 117  | 360831   | 48.539  | ug/l   | 99       |

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 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
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 VSTDCCC050EC

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 Quant Title : SW846 8260  
 QLast Update : Wed Sep 23 01:34:05 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.35  | 83   | 390828   | 50.062   | ug/l   | 98       |
| 40) Benzene                    | 8.35  | 78   | 978449   | 51.632   | ug/l   | 96       |
| 41) Methacrylonitrile          | 7.52  | 41   | 83297m   | 55.103   | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 284326   | 50.753   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.45  | 43   | 258471   | 54.540   | ug/l   | 100      |
| 44) Trichloroethene            | 9.11  | 130  | 280539   | 51.937   | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 248495   | 52.118   | ug/l   | 99       |
| 46) Dibromomethane             | 9.47  | 93   | 142089   | 54.849   | ug/l   | 96       |
| 47) Bromodichloromethane       | 9.66  | 83   | 366302   | 52.637   | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.46  | 41   | 122812   | 52.560   | ug/l   | 93       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 32889    | 1133.361 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 678844   | 282.695  | ug/l   | 98       |
| 52) Toluene                    | 10.40 | 92   | 659490   | 54.028   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 330530   | 55.804   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 389640   | 53.950   | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 196955   | 55.305   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 237081   | 62.143   | ug/l   | 94       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 327056   | 55.617   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 454562   | 251.637  | ug/l   | 97       |
| 59) 2-Hexanone                 | 10.98 | 43   | 454945   | 280.935  | ug/l   | 95       |
| 60) Dibromochloromethane       | 11.14 | 129  | 262290   | 56.432   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 187926   | 56.734   | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.87 | 164  | 238548   | 52.376   | ug/l   | 97       |
| 65) Chlorobenzene              | 11.67 | 112  | 701506   | 53.226   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 276217   | 55.373   | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.74 | 91   | 1232442  | 53.242   | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.86 | 106  | 956130   | 109.096  | ug/l   | 98       |
| 69) o-Xylene                   | 12.18 | 106  | 444322   | 56.067   | ug/l   | 99       |
| 70) Styrene                    | 12.20 | 104  | 772900   | 56.160   | ug/l   | 99       |
| 71) Bromoform                  | 12.36 | 173  | 146294   | 57.924   | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.48 | 105  | 1188642  | 54.088   | ug/l   | 97       |
| 74) N-amyl acetate             | 12.29 | 43   | 240248   | 55.981   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 204250   | 53.862   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 161954m  | 64.241   | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 286475   | 55.737   | ug/l   | 93       |
| 78) n-propylbenzene            | 12.82 | 91   | 1386694  | 52.450   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 796101   | 52.841   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 1007544  | 54.032   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 61468    | 61.001   | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 837691   | 52.746   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 838930   | 54.751   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 1003765  | 54.285   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.40 | 105  | 1171367  | 53.161   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 1079740  | 54.364   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 539663   | 53.146   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 533350   | 52.884   | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.85 | 91   | 984041   | 52.126   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.11 | 117  | 209922   | 52.061   | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 474376   | 54.605   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 34295    | 56.220   | ug/l   | 91       |

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Sample : VSTDCCC050  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDCCC050EC

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Quant Title : SW846 8260  
QLast Update : Wed Sep 23 01:34:05 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 323718   | 59.193 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 179467   | 54.763 | ug/l  | 99       |
| 95) Naphthalene            | 15.41 | 128  | 606510   | 65.323 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 282900   | 59.934 | ug/l  | 98       |

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

