

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111120\  
 Data File : VD067613.D  
 Acq On : 11 Nov 2020 20:09  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 11/12/2020 1:11:56 PM

Quant Time: Nov 12 01:24:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 00:56:28 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 360767   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 545425   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 510364   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 253215   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.34   | 65  | 143052   | 45.35 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.70% |      |
| 35) Dibromofluoromethane  | 7.92   | 113 | 157944   | 48.06 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.12% |      |
| 50) Toluene-d8            | 10.34  | 98  | 538456   | 46.63 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.26% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 193721   | 48.59 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.18% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 127884 | 43.170  | ug/l   | 96     |
| 3) Chloromethane              | 2.21 | 50  | 95379  | 42.455  | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.35 | 62  | 105493 | 42.118  | ug/l   | 97     |
| 5) Bromomethane               | 2.77 | 94  | 87179  | 42.943  | ug/l   | 92     |
| 6) Chloroethane               | 2.92 | 64  | 68214  | 44.174  | ug/l   | 99     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 282434 | 43.550  | ug/l   | 93     |
| 8) Diethyl Ether              | 3.71 | 74  | 70689  | 54.094  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 154101 | 47.074  | ug/l   | 100    |
| 10) Methyl Iodide             | 4.30 | 142 | 171379 | 48.845  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 5.21 | 59  | 40538  | 302.442 | ug/l # | 79     |
| 12) 1,1-Dichloroethene        | 4.07 | 96  | 142287 | 47.253  | ug/l   | 95     |
| 13) Acrolein                  | 3.92 | 56  | 41869  | 293.473 | ug/l   | 100    |
| 14) Allyl chloride            | 4.71 | 41  | 169648 | 52.642  | ug/l   | 95     |
| 15) Acrylonitrile             | 5.42 | 53  | 139795 | 289.395 | ug/l   | 99     |
| 16) Acetone                   | 4.16 | 43  | 109620 | 232.219 | ug/l   | 91     |
| 17) Carbon Disulfide          | 4.41 | 76  | 421598 | 45.692  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.71 | 43  | 63975  | 65.583  | ug/l   | 92     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 329139 | 55.415  | ug/l   | 95     |
| 20) Methylene Chloride        | 4.97 | 84  | 165711 | 49.695  | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 173717 | 49.532  | ug/l   | 99     |
| 22) Diisopropyl ether         | 6.36 | 45  | 364413 | 58.026  | ug/l   | 98     |
| 23) Vinyl Acetate             | 6.30 | 43  | 952907 | 289.873 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 260756 | 50.754  | ug/l   | 98     |
| 25) 2-Butanone                | 7.21 | 43  | 145873 | 289.199 | ug/l   | 93     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 246017 | 45.371  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 190074 | 52.214  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.55 | 49  | 100668 | 55.085  | ug/l   | 97     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 92846  | 307.295 | ug/l   | 99     |
| 30) Chloroform                | 7.71 | 83  | 311779 | 50.867  | ug/l   | 96     |
| 31) Cyclohexane               | 7.99 | 56  | 207370 | 45.325  | ug/l   | 95     |
| 32) 1,1,1-Trichloroethane     | 7.91 | 97  | 293752 | 46.450  | ug/l   | 100    |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 222592 | 47.677  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.30 | 43  | 68591  | 56.589  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 276820 | 45.635  | ug/l   | 99     |

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 ALS Vial : 24 Sample Multiplier: 1

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 11/12/2020 1:11:56 PM

Quant Time: Nov 12 01:24:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 00:56:28 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 263261   | 47.909   | ug/l   | 97       |
| 40) Benzene                    | 8.36  | 78   | 641865   | 50.754   | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.53  | 41   | 40023    | 55.240   | ug/l # | 71       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 192734   | 49.326   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.46  | 43   | 135458   | 56.508   | ug/l   | 98       |
| 44) Trichloroethene            | 9.11  | 130  | 201121   | 48.366   | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 147787   | 54.050   | ug/l   | 95       |
| 46) Dibromomethane             | 9.48  | 93   | 90246    | 51.910   | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.67  | 83   | 242438   | 51.306   | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.46  | 41   | 66198    | 53.485   | ug/l   | 94       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 20027    | 1134.740 | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 336156   | 293.217  | ug/l   | 99       |
| 52) Toluene                    | 10.41 | 92   | 440747   | 52.032   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 217618   | 53.772   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 10.10 | 75   | 252989   | 52.615   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 125540   | 54.576   | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 136695   | 57.546   | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 197420   | 53.334   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 323044   | 291.627  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.99 | 43   | 230875   | 288.020  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.14 | 129  | 176002   | 51.724   | ug/l   | 96       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 122128   | 52.900   | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.88 | 164  | 181425   | 48.000   | ug/l   | 95       |
| 65) Chlorobenzene              | 11.67 | 112  | 485297   | 49.364   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 192348   | 49.642   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.75 | 91   | 827401   | 49.183   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.86 | 106  | 646581   | 98.793   | ug/l   | 98       |
| 69) o-Xylene                   | 12.18 | 106  | 301409   | 51.581   | ug/l   | 98       |
| 70) Styrene                    | 12.20 | 104  | 518289   | 50.902   | ug/l   | 99       |
| 71) Bromoform                  | 12.37 | 173  | 105173   | 53.221   | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.48 | 105  | 819102   | 50.053   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.29 | 43   | 119852   | 55.658   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 121069   | 54.254   | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 70959m   | 46.453   | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 204811   | 50.961   | ug/l   | 99       |
| 78) n-propylbenzene            | 12.83 | 91   | 927661   | 49.558   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 543480   | 51.113   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 715221   | 51.162   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 38896    | 51.697   | ug/l   | 92       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 573660   | 50.304   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 606052   | 51.153   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 709871   | 51.013   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 797741   | 49.877   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 756961   | 49.010   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 379986   | 49.549   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 372537   | 47.975   | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.85 | 91   | 647046   | 48.501   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.11 | 117  | 139294   | 47.891   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 334591   | 50.412   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 21072    | 53.333   | ug/l   | 94       |

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Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
VSTDCCC050EC

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11/12/2020 1:11:56 PM

Quant Time: Nov 12 01:24:01 2020  
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Quant Title : SW846 8260  
QLast Update : Wed Nov 04 00:56:28 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 224087   | 49.745 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 141161   | 46.821 | ug/l  | 98       |
| 95) Naphthalene            | 15.40 | 128  | 384915   | 55.368 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 197079   | 51.089 | ug/l  | 99       |

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

