

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062320\  
 Data File : VD065851.D  
 Acq On : 23 Jun 2020 10:45  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 6/24/2020 10:52:32 AM

Quant Time: Jun 24 05:33:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060520S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 05 13:07:30 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 209876   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 325550   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 294989   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 151439   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 104369   | 50.33 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.66% |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 105518   | 51.31 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.62% |      |
| 50) Toluene-d8            | 10.34  | 98  | 396416   | 51.70 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.40% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 133252   | 51.24 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.48% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 62179  | 43.540  | ug/l   | 99     |
| 3) Chloromethane              | 2.21 | 50  | 106214 | 44.554  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.35 | 62  | 134949 | 43.582  | ug/l   | 99     |
| 5) Bromomethane               | 2.77 | 94  | 91630  | 42.314  | ug/l   | 93     |
| 6) Chloroethane               | 2.92 | 64  | 92424  | 44.144  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 161709 | 46.094  | ug/l   | 98     |
| 8) Diethyl Ether              | 3.70 | 74  | 41103  | 44.563  | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 96741  | 46.245  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.30 | 142 | 95594  | 46.927  | ug/l   | 97     |
| 11) Tert butyl alcohol        | 5.21 | 59  | 27236  | 231.695 | ug/l # | 94     |
| 12) 1,1-Dichloroethene        | 4.07 | 96  | 87809  | 46.055  | ug/l   | 96     |
| 13) Acrolein                  | 3.92 | 56  | 26142  | 224.424 | ug/l   | 100    |
| 14) Allyl chloride            | 4.71 | 41  | 148137 | 47.009  | ug/l   | 98     |
| 15) Acrylonitrile             | 5.41 | 53  | 94457  | 225.477 | ug/l   | 99     |
| 16) Acetone                   | 4.15 | 43  | 116837 | 298.666 | ug/l   | 95     |
| 17) Carbon Disulfide          | 4.40 | 76  | 273492 | 42.738  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.71 | 43  | 41151  | 46.374  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 5.47 | 73  | 200531 | 46.434  | ug/l   | 96     |
| 20) Methylene Chloride        | 4.96 | 84  | 100156 | 48.034  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 103628 | 46.410  | ug/l   | 99     |
| 22) Diisopropyl ether         | 6.36 | 45  | 307113 | 48.234  | ug/l   | 96     |
| 23) Vinyl Acetate             | 6.30 | 43  | 865535 | 240.729 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 183418 | 47.278  | ug/l   | 99     |
| 25) 2-Butanone                | 7.21 | 43  | 126699 | 234.513 | ug/l   | 93     |
| 26) 2,2-Dichloropropane       | 7.20 | 77  | 171148 | 49.754  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 114094 | 47.502  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.54 | 49  | 77847  | 51.955  | ug/l   | 95     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 76284  | 223.407 | ug/l   | 99     |
| 30) Chloroform                | 7.71 | 83  | 188667 | 46.918  | ug/l   | 100    |
| 31) Cyclohexane               | 7.98 | 56  | 166137 | 44.670  | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 175186 | 47.379  | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 147190 | 47.198  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.29 | 43  | 55241  | 44.971  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 8.09 | 117 | 159730 | 48.669  | ug/l   | 98     |

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Quant Time: Jun 24 05:33:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060520S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 05 13:07:30 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 178762   | 48.415  | ug/l   | 98       |
| 40) Benzene                    | 8.35  | 78   | 406934   | 47.731  | ug/l   | 95       |
| 41) Methacrylonitrile          | 7.53  | 41   | 36455m   | 49.842  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.42  | 62   | 116293   | 45.208  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.45  | 43   | 109756   | 44.934  | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 114714   | 48.350  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 99370    | 46.387  | ug/l   | 100      |
| 46) Dibromomethane             | 9.47  | 93   | 52866    | 45.503  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.66  | 83   | 144052   | 46.270  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.46  | 41   | 54640    | 46.214  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 10657    | 861.797 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 278708   | 232.858 | ug/l   | 99       |
| 52) Toluene                    | 10.40 | 92   | 264960   | 47.831  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 137660   | 48.829  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 159454   | 47.890  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 72684    | 46.822  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 87694    | 48.028  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 126014   | 46.855  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 225813   | 266.010 | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.98 | 43   | 204870   | 253.885 | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.14 | 129  | 98994    | 47.206  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 71127    | 46.623  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.88 | 164  | 93314    | 46.780  | ug/l   | 90       |
| 65) Chlorobenzene              | 11.67 | 112  | 279551   | 48.543  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 107121   | 49.902  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.75 | 91   | 523776   | 50.912  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.86 | 106  | 401800   | 101.395 | ug/l   | 99       |
| 69) o-Xylene                   | 12.18 | 106  | 184380   | 51.605  | ug/l   | 99       |
| 70) Styrene                    | 12.20 | 104  | 318687   | 51.524  | ug/l   | 99       |
| 71) Bromoform                  | 12.36 | 173  | 56013    | 47.384  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.48 | 105  | 510398   | 50.268  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.29 | 43   | 103569   | 45.849  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 80173    | 46.755  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 57477m   | 48.802  | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 117034   | 48.717  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.83 | 91   | 611769   | 50.055  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 332114   | 49.534  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 426938   | 50.529  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 25728    | 47.198  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 355538   | 49.403  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 374018   | 51.016  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 425735   | 50.340  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.41 | 105  | 527778   | 51.728  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 484222   | 51.780  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 232298   | 49.042  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 225905   | 47.944  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.85 | 91   | 461267   | 51.718  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.12 | 117  | 94800    | 50.645  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 197963   | 48.562  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 12308    | 43.129  | ug/l   | 98       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 134542   | 48.541 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 81610    | 48.707 | ug/l  | 99       |
| 95) Naphthalene            | 15.41 | 128  | 219157   | 46.679 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 114394   | 47.920 | ug/l  | 99       |

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

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