

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100120\  
 Data File : VD066988.D  
 Acq On : 01 Oct 2020 12:47  
 Operator : VA/SY  
 Sample : VSTDICCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

MMDadoda  
 10/2/2020 3:13:21 PM

Quant Time: Oct 01 15:11:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 01 15:02:24 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 475191   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 727285   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 671897   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 321808   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 237000   | 51.78 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.56% |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 252879   | 53.11 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.22% |      |
| 50) Toluene-d8            | 10.34  | 98  | 951394   | 54.84 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.68% |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 315991   | 53.65 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.30% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 204163  | 47.318  | ug/l | 100    |
| 3) Chloromethane              | 2.21 | 50  | 178122  | 47.068  | ug/l | 100    |
| 4) Vinyl Chloride             | 2.35 | 62  | 184867  | 48.719  | ug/l | 100    |
| 5) Bromomethane               | 2.77 | 94  | 130610  | 47.224  | ug/l | 100    |
| 6) Chloroethane               | 2.92 | 64  | 114048  | 49.353  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 408727  | 48.482  | ug/l | 100    |
| 8) Diethyl Ether              | 3.71 | 74  | 107983  | 51.652  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 231616  | 48.607  | ug/l | 100    |
| 10) Methyl Iodide             | 4.30 | 142 | 239858  | 51.805  | ug/l | 100    |
| 11) Tert butyl alcohol        | 5.22 | 59  | 66055   | 169.537 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 4.07 | 96  | 220776  | 49.286  | ug/l | 100    |
| 13) Acrolein                  | 3.93 | 56  | 71756   | 234.133 | ug/l | 100    |
| 14) Allyl chloride            | 4.71 | 41  | 299638  | 51.491  | ug/l | 100    |
| 15) Acrylonitrile             | 5.42 | 53  | 195870  | 254.565 | ug/l | 100    |
| 16) Acetone                   | 4.16 | 43  | 180656  | 258.566 | ug/l | 100    |
| 17) Carbon Disulfide          | 4.41 | 76  | 680100  | 49.472  | ug/l | 100    |
| 18) Methyl Acetate            | 4.71 | 43  | 88752   | 50.541  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 436576  | 53.388  | ug/l | 100    |
| 20) Methylene Chloride        | 4.96 | 84  | 262733  | 41.252  | ug/l | 100    |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 256903  | 50.394  | ug/l | 100    |
| 22) Diisopropyl ether         | 6.36 | 45  | 561708  | 52.872  | ug/l | 100    |
| 23) Vinyl Acetate             | 6.31 | 43  | 1659780 | 275.703 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 411336  | 50.169  | ug/l | 100    |
| 25) 2-Butanone                | 7.21 | 43  | 247513  | 249.868 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 376041  | 47.802  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 276713  | 50.824  | ug/l | 100    |
| 28) Bromochloromethane        | 7.54 | 49  | 169566  | 53.553  | ug/l | 100    |
| 29) Tetrahydrofuran           | 7.56 | 42  | 150409  | 264.074 | ug/l | 100    |
| 30) Chloroform                | 7.71 | 83  | 438600  | 49.313  | ug/l | 100    |
| 31) Cyclohexane               | 7.98 | 56  | 332320  | 48.346  | ug/l | 100    |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 407970  | 49.494  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 344870  | 50.873  | ug/l | 100    |
| 37) Ethyl Acetate             | 7.30 | 43  | 119575  | 50.916  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 375156  | 51.147  | ug/l | 100    |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 388387   | 54.190   | ug/l  | 100      |
| 40) Benzene                    | 8.35  | 78   | 960974   | 51.036   | ug/l  | 100      |
| 41) Methacrylonitrile          | 7.52  | 41   | 69879m   | 55.077   | ug/l  |          |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 267163   | 50.777   | ug/l  | 100      |
| 43) Isopropyl Acetate          | 8.45  | 43   | 227815   | 52.657   | ug/l  | 100      |
| 44) Trichloroethene            | 9.11  | 130  | 282807   | 50.298   | ug/l  | 100      |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 231806   | 52.395   | ug/l  | 100      |
| 46) Dibromomethane             | 9.47  | 93   | 134456   | 52.877   | ug/l  | 100      |
| 47) Bromodichloromethane       | 9.66  | 83   | 340558   | 51.523   | ug/l  | 100      |
| 48) Methyl methacrylate        | 9.46  | 41   | 123735   | 55.825   | ug/l  | 100      |
| 49) 1,4-Dioxane                | 9.46  | 88   | 27380    | 1031.701 | ug/l  | 100      |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 585464   | 271.682  | ug/l  | 100      |
| 52) Toluene                    | 10.40 | 92   | 641711   | 52.906   | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 313854   | 53.128   | ug/l  | 100      |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 375175   | 52.009   | ug/l  | 100      |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 183428   | 51.885   | ug/l  | 100      |
| 56) Ethyl methacrylate         | 10.66 | 69   | 209468   | 57.389   | ug/l  | 100      |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 300723   | 52.456   | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 564179   | 277.716  | ug/l  | 100      |
| 59) 2-Hexanone                 | 10.98 | 43   | 398309   | 276.928  | ug/l  | 100      |
| 60) Dibromochloromethane       | 11.14 | 129  | 248099   | 52.654   | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 180716   | 53.208   | ug/l  | 100      |
| 64) Tetrachloroethene          | 10.87 | 164  | 241533   | 49.447   | ug/l  | 100      |
| 65) Chlorobenzene              | 11.67 | 112  | 673465   | 50.397   | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 255796   | 50.322   | ug/l  | 100      |
| 67) Ethyl Benzene              | 11.74 | 91   | 1203885  | 52.580   | ug/l  | 100      |
| 68) m/p-Xylenes                | 11.86 | 106  | 933759   | 104.645  | ug/l  | 100      |
| 69) o-Xylene                   | 12.18 | 106  | 429577   | 53.835   | ug/l  | 100      |
| 70) Styrene                    | 12.20 | 104  | 738604   | 53.905   | ug/l  | 100      |
| 71) Bromoform                  | 12.36 | 173  | 134648   | 51.030   | ug/l  | 100      |
| 73) Isopropylbenzene           | 12.48 | 105  | 1175978  | 53.817   | ug/l  | 100      |
| 74) N-amyl acetate             | 12.29 | 43   | 208660   | 53.120   | ug/l  | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 188009   | 51.067   | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 147572m  | 53.800   | ug/l  |          |
| 77) Bromobenzene               | 12.76 | 156  | 268453   | 50.879   | ug/l  | 100      |
| 78) n-propylbenzene            | 12.82 | 91   | 1387521  | 53.729   | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 771975   | 52.248   | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 999620   | 54.146   | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 58519    | 52.049   | ug/l  | 100      |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 811658   | 51.632   | ug/l  | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 821054   | 52.813   | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 980017   | 53.192   | ug/l  | 100      |
| 85) sec-Butylbenzene           | 13.41 | 105  | 1172177  | 53.540   | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 1083669  | 53.389   | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 519698   | 50.568   | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 514599   | 50.077   | ug/l  | 100      |
| 89) n-Butylbenzene             | 13.85 | 91   | 993401   | 53.552   | ug/l  | 100      |
| 90) Hexachloroethane           | 14.11 | 117  | 183236   | 51.536   | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 455685   | 50.770   | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 30580    | 51.527   | ug/l  | 100      |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 310023   | 53.400 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 182430   | 51.166 | ug/l  | 100      |
| 95) Naphthalene            | 15.41 | 128  | 542146   | 55.986 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 272927   | 54.154 | ug/l  | 100      |

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

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