

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012420\  
 Data File : VD064939.D  
 Acq On : 24 Jan 2020 13:19  
 Operator : VA/SY  
 Sample : VD0124SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0124SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 1/27/2020 12:03:11 PM

Quant Time: Jan 25 02:59:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D012320S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 13:45:59 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 428488   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 649456   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 573393   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 277699   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 213981   | 52.06 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.12% |      |
| 35) Dibromofluoromethane  | 7.92   | 113 | 207635   | 50.88 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.76% |      |
| 50) Toluene-d8            | 10.34  | 98  | 806959   | 51.23 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.46% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 246326   | 51.10 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.20% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 66634  | 20.642  | ug/l   | 93     |
| 3) Chloromethane              | 2.21 | 50  | 102442 | 21.653  | ug/l   | 97     |
| 4) Vinyl Chloride             | 2.35 | 62  | 114929 | 21.151  | ug/l   | 98     |
| 5) Bromomethane               | 2.76 | 94  | 83715  | 22.903  | ug/l   | 92     |
| 6) Chloroethane               | 2.92 | 64  | 76897  | 21.465  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 176920 | 21.082  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.70 | 74  | 39181  | 20.682  | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.08 | 101 | 81900  | 20.977  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.29 | 142 | 82849  | 19.991  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.24 | 59  | 23028  | 101.388 | ug/l # | 93     |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 77462  | 20.768  | ug/l   | 91     |
| 13) Acrolein                  | 3.93 | 56  | 29302  | 102.912 | ug/l   | 97     |
| 14) Allyl chloride            | 4.71 | 41  | 125422 | 21.083  | ug/l   | 100    |
| 15) Acrylonitrile             | 5.43 | 53  | 85390  | 104.084 | ug/l   | 99     |
| 16) Acetone                   | 4.17 | 43  | 81751  | 84.168  | ug/l   | 98     |
| 17) Carbon Disulfide          | 4.40 | 76  | 257021 | 20.938  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.72 | 43  | 40677  | 21.131  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 172691 | 20.721  | ug/l   | 94     |
| 20) Methylene Chloride        | 4.96 | 84  | 97475  | 20.630  | ug/l   | 93     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 90904  | 21.154  | ug/l   | 94     |
| 22) Diisopropyl ether         | 6.37 | 45  | 251197 | 21.188  | ug/l   | 96     |
| 23) Vinyl Acetate             | 6.31 | 43  | 704045 | 101.429 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 155478 | 21.360  | ug/l   | 98     |
| 25) 2-Butanone                | 7.22 | 43  | 107785 | 97.068  | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 136531 | 20.679  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 96683  | 21.079  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.55 | 49  | 51642  | 17.740  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.57 | 42  | 69310  | 101.164 | ug/l   | 98     |
| 30) Chloroform                | 7.71 | 83  | 155958 | 20.727  | ug/l   | 100    |
| 31) Cyclohexane               | 7.98 | 56  | 144012 | 20.111  | ug/l   | 93     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 145557 | 20.794  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 127009 | 20.281  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.30 | 43  | 50135  | 19.381  | ug/l   | 100    |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 131600 | 19.881  | ug/l   | 97     |

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Quant Time: Jan 25 02:59:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D012320S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 13:45:59 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 143999   | 19.667  | ug/l   | 95       |
| 40) Benzene                    | 8.35  | 78   | 352931   | 20.462  | ug/l   | 96       |
| 41) Methacrylonitrile          | 7.53  | 41   | 27810    | 19.957  | ug/l   | 95       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 106373   | 20.704  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 95810    | 19.498  | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 98000    | 20.302  | ug/l   | 92       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 85572    | 20.465  | ug/l   | 95       |
| 46) Dibromomethane             | 9.48  | 93   | 45490    | 19.927  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.67  | 83   | 122534   | 20.628  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.46  | 41   | 44165    | 19.531  | ug/l   | 92       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 11268    | 425.596 | ug/l # | 96       |
| 51) 4-Methyl-2-Pentanone       | 10.24 | 43   | 244040   | 99.258  | ug/l   | 97       |
| 52) Toluene                    | 10.40 | 92   | 226608   | 20.378  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 110456   | 19.521  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.10 | 75   | 135083   | 20.390  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.81 | 97   | 61572    | 20.024  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 73262    | 19.924  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 106407   | 20.175  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 118165   | 96.728  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.99 | 43   | 162121   | 95.595  | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.14 | 129  | 84673    | 20.602  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 59341    | 20.042  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.88 | 164  | 86502    | 20.877  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.67 | 112  | 237714   | 20.419  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 90321    | 20.629  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.75 | 91   | 416948   | 20.173  | ug/l   | 96       |
| 68) m/p-Xylenes                | 11.86 | 106  | 326545   | 41.034  | ug/l   | 100      |
| 69) o-Xylene                   | 12.18 | 106  | 145023   | 20.534  | ug/l   | 98       |
| 70) Styrene                    | 12.20 | 104  | 255092   | 20.276  | ug/l   | 99       |
| 71) Bromoform                  | 12.37 | 173  | 49034    | 20.147  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.48 | 105  | 390618   | 20.580  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.30 | 43   | 83992    | 19.776  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 66131    | 20.730  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 34544m   | 14.987  | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 98157    | 21.136  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.83 | 91   | 466731   | 20.677  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 260883   | 21.068  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 331495   | 21.312  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 22139    | 20.509  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 277768   | 21.152  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 275225   | 20.851  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 324685   | 20.606  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 383342   | 20.511  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 363183   | 20.766  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 181880   | 20.412  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 186474   | 21.085  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.85 | 91   | 327298   | 20.507  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.12 | 117  | 72000    | 21.348  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 155380   | 20.540  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 10325    | 20.225  | ug/l   | 98       |

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Quant Title : SW846 8260  
QLast Update : Thu Jan 23 13:45:59 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 108425   | 20.718 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 67844    | 20.495 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 166989   | 19.771 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 94388    | 20.801 | ug/l  | 98       |

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

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