

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041720\  
 Data File : VD065656.D  
 Acq On : 17 Apr 2020 20:45  
 Operator : VA/SY  
 Sample : VD0417SBS01  
 Misc : 5.65G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0417SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 4/20/2020 4:28:24 PM

Quant Time: Apr 20 08:25:25 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D041520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 15 19:43:39 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 201462   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 298449   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 292874   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 154947   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.34   | 65  | 102121   | 59.59 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 119.18% |      |
| 35) Dibromofluoromethane  | 7.92   | 113 | 100947   | 54.35 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.70% |      |
| 50) Toluene-d8            | 10.34  | 98  | 371422   | 54.24 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.48% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 124446   | 54.62 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.24% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 27640  | 16.476  | ug/l   | 97     |
| 3) Chloromethane              | 2.21 | 50  | 33981  | 18.561  | ug/l   | 97     |
| 4) Vinyl Chloride             | 2.35 | 62  | 38131  | 19.171  | ug/l   | 100    |
| 5) Bromomethane               | 2.75 | 94  | 24084  | 22.294  | ug/l   | 95     |
| 6) Chloroethane               | 2.91 | 64  | 23171  | 19.595  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 54015  | 19.049  | ug/l   | 98     |
| 8) Diethyl Ether              | 3.70 | 74  | 12548  | 21.544  | ug/l   | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 25592  | 19.798  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.29 | 142 | 20223  | 15.374  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.24 | 59  | 9403   | 110.657 | ug/l # | 92     |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 22205  | 19.110  | ug/l   | 96     |
| 13) Acrolein                  | 3.92 | 56  | 7633   | 100.636 | ug/l   | 92     |
| 14) Allyl chloride            | 4.71 | 41  | 51303  | 26.241  | ug/l   | 90     |
| 15) Acrylonitrile             | 5.43 | 53  | 41598  | 118.599 | ug/l   | 98     |
| 16) Acetone                   | 4.17 | 43  | 25345  | 103.407 | ug/l   | 92     |
| 17) Carbon Disulfide          | 4.40 | 76  | 97884  | 22.839  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.72 | 43  | 21530  | 27.445  | ug/l   | 96     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 70406  | 21.397  | ug/l   | 96     |
| 20) Methylene Chloride        | 4.96 | 84  | 48157  | 31.080  | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 38693  | 20.608  | ug/l   | 99     |
| 22) Diisopropyl ether         | 6.37 | 45  | 113199 | 21.108  | ug/l   | 97     |
| 23) Vinyl Acetate             | 6.31 | 43  | 298365 | 102.032 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 67777  | 20.004  | ug/l   | 100    |
| 25) 2-Butanone                | 7.22 | 43  | 48883  | 106.890 | ug/l   | 95     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 53494  | 18.114  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 40583  | 19.483  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.55 | 49  | 32871  | 24.291  | ug/l   | 100    |
| 29) Tetrahydrofuran           | 7.57 | 42  | 30860  | 106.351 | ug/l   | 97     |
| 30) Chloroform                | 7.71 | 83  | 70668  | 20.379  | ug/l   | 98     |
| 31) Cyclohexane               | 7.98 | 56  | 57328  | 17.762  | ug/l # | 94     |
| 32) 1,1,1-Trichloroethane     | 7.91 | 97  | 60888  | 19.529  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 51740  | 17.954  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.30 | 43  | 22298  | 19.402  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 57421  | 18.602  | ug/l   | 99     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 55320    | 16.496  | ug/l   | 96       |
| 40) Benzene                    | 8.36  | 78   | 155839   | 18.809  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.53  | 41   | 12637m   | 22.202  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 47170    | 20.773  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 41383    | 19.997  | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 41815    | 18.029  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 39531    | 19.440  | ug/l   | 98       |
| 46) Dibromomethane             | 9.48  | 93   | 21074    | 20.041  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.67  | 83   | 56421    | 20.149  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.46  | 41   | 19083    | 18.364  | ug/l # | 90       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 4949     | 405.013 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 107538   | 99.144  | ug/l   | 98       |
| 52) Toluene                    | 10.41 | 92   | 100462   | 19.668  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 49158    | 19.119  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.10 | 75   | 59499    | 19.121  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 31523    | 21.194  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 30738    | 18.840  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 51342    | 20.272  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.95  | 63   | 90353    | 108.427 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.99 | 43   | 72233    | 97.344  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.14 | 129  | 40140    | 20.491  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 29174    | 20.385  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.88 | 164  | 37804    | 17.990  | ug/l   | 94       |
| 65) Chlorobenzene              | 11.67 | 112  | 110627   | 19.078  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 43032    | 19.410  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.75 | 91   | 178062   | 17.968  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.86 | 106  | 139065   | 36.323  | ug/l   | 99       |
| 69) o-Xylene                   | 12.18 | 106  | 60852    | 18.115  | ug/l   | 100      |
| 70) Styrene                    | 12.20 | 104  | 111946   | 18.827  | ug/l   | 100      |
| 71) Bromoform                  | 12.37 | 173  | 23761    | 19.077  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.48 | 105  | 158226   | 16.931  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.30 | 43   | 36492    | 18.538  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 34685    | 20.441  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 21828m   | 17.521  | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 46833    | 18.871  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.83 | 91   | 201562   | 17.829  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 116386   | 18.128  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 141281   | 17.914  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 10338    | 18.186  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 125572   | 18.176  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 113295   | 17.133  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 143406   | 18.239  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.41 | 105  | 160310   | 16.946  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 144524   | 16.278  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 85182    | 17.531  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 87849    | 18.164  | ug/l   | 96       |
| 89) n-Butylbenzene             | 13.85 | 91   | 130735   | 16.224  | ug/l   | 98       |
| 90) Hexachloroethane           | 14.12 | 117  | 33227    | 17.845  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 78946    | 18.949  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 5072     | 19.765  | ug/l   | 90       |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 48218    | 16.826 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 32985    | 16.788 | ug/l  | 100      |
| 95) Naphthalene            | 15.41 | 128  | 71593    | 17.487 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 44393    | 17.559 | ug/l  | 99       |

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

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