

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080720\  
 Data File : VD066160.D  
 Acq On : 07 Aug 2020 16:20  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 8/10/2020 12:24:14 PM

Quant Time: Aug 08 01:27:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:49:25 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 297804   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 447396   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 416262   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 213011   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 140285   | 52.80 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.60% |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 145287   | 51.26 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.52% |      |
| 50) Toluene-d8            | 10.34  | 98  | 549081   | 52.50 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.00% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 192545   | 51.07 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.14% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 111436  | 42.472  | ug/l   | 99     |
| 3) Chloromethane              | 2.20 | 50  | 91928   | 45.041  | ug/l   | 96     |
| 4) Vinyl Chloride             | 2.34 | 62  | 86812   | 48.043  | ug/l   | 96     |
| 5) Bromomethane               | 2.77 | 94  | 59801   | 49.883  | ug/l   | 99     |
| 6) Chloroethane               | 2.92 | 64  | 54195   | 48.860  | ug/l   | 93     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 219271  | 46.546  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.70 | 74  | 66584   | 50.092  | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 132634  | 47.441  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.30 | 142 | 141280  | 54.767  | ug/l   | 97     |
| 11) Tert butyl alcohol        | 5.22 | 59  | 42450   | 207.515 | ug/l   | 96     |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 121996  | 46.256  | ug/l   | 93     |
| 13) Acrolein                  | 3.92 | 56  | 44567   | 210.738 | ug/l   | 99     |
| 14) Allyl chloride            | 4.71 | 41  | 203056  | 50.820  | ug/l   | 98     |
| 15) Acrylonitrile             | 5.42 | 53  | 141511  | 252.640 | ug/l   | 99     |
| 16) Acetone                   | 4.15 | 43  | 121305  | 240.627 | ug/l   | 98     |
| 17) Carbon Disulfide          | 4.40 | 76  | 384044  | 45.798  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.71 | 43  | 61059   | 47.684  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 306534  | 50.708  | ug/l   | 100    |
| 20) Methylene Chloride        | 4.96 | 84  | 166996  | 58.472  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 147177  | 48.577  | ug/l   | 96     |
| 22) Diisopropyl ether         | 6.36 | 45  | 421993  | 53.408  | ug/l   | 98     |
| 23) Vinyl Acetate             | 6.30 | 43  | 1222616 | 264.127 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 250991  | 51.329  | ug/l   | 99     |
| 25) 2-Butanone                | 7.21 | 43  | 175638  | 236.879 | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 7.20 | 77  | 211112  | 48.170  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 7.20 | 96  | 163782  | 51.539  | ug/l   | 98     |
| 28) Bromochloromethane        | 7.54 | 49  | 93422   | 54.396  | ug/l # | 98     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 116151  | 252.839 | ug/l   | 97     |
| 30) Chloroform                | 7.71 | 83  | 260534  | 50.742  | ug/l   | 96     |
| 31) Cyclohexane               | 7.98 | 56  | 216210  | 46.450  | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 234003  | 48.607  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 198648  | 47.250  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.29 | 43  | 80615   | 48.396  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 218082  | 46.516  | ug/l   | 94     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.35  | 83   | 241097   | 47.440  | ug/l   | 96       |
| 40) Benzene                    | 8.35  | 78   | 570651   | 48.930  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.52  | 41   | 38087m   | 38.888  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.42  | 62   | 165222   | 48.223  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.45  | 43   | 160120   | 48.787  | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 167924   | 47.782  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 142969   | 50.123  | ug/l   | 94       |
| 46) Dibromomethane             | 9.47  | 93   | 78430    | 49.918  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.66  | 83   | 204454   | 49.236  | ug/l   | 93       |
| 48) Methyl methacrylate        | 9.45  | 41   | 76007    | 45.354  | ug/l   | 88       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 19426    | 962.372 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 413141   | 245.066 | ug/l   | 100      |
| 52) Toluene                    | 10.40 | 92   | 377942   | 49.248  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 196548   | 49.875  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 233359   | 50.541  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 105188   | 46.494  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 138194   | 50.848  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 187330   | 49.876  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 350805   | 286.956 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 286552   | 242.195 | ug/l   | 97       |
| 60) Dibromochloromethane       | 11.14 | 129  | 150506   | 48.186  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 107109   | 49.228  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.88 | 164  | 144831   | 45.310  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.67 | 112  | 407979   | 48.280  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 155810   | 47.125  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.74 | 91   | 716056   | 48.899  | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.86 | 106  | 547359   | 96.476  | ug/l   | 97       |
| 69) o-Xylene                   | 12.18 | 106  | 253528   | 49.124  | ug/l   | 100      |
| 70) Styrene                    | 12.20 | 104  | 455734   | 50.386  | ug/l   | 99       |
| 71) Bromoform                  | 12.36 | 173  | 91317    | 46.616  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.48 | 105  | 703307   | 49.463  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.29 | 43   | 152404   | 48.674  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 115850   | 47.782  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 82174m   | 46.260  | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 175535   | 47.957  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.83 | 91   | 811609   | 49.103  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 466529   | 49.351  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 590016   | 49.617  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 39426    | 49.063  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 489494   | 49.051  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 517886   | 49.521  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 591777   | 49.727  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 693446   | 49.113  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 649543   | 49.049  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 332002   | 48.261  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 330208   | 48.131  | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.85 | 91   | 592095   | 49.903  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.12 | 117  | 126162   | 47.768  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 293910   | 48.310  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 19955    | 47.887  | ug/l   | 95       |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 218879   | 48.819 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 124757   | 47.254 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 360020   | 49.281 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 188487   | 47.623 | ug/l  | 98       |

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

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