

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041219\  
 Data File : VD061792.D  
 Acq On : 12 Apr 2019 23:17  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 4/15/2019 12:32:01 AM

Quant Time: Apr 12 23:43:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Apr 08 10:04:03 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.03  | 168  | 509839   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.20  | 114  | 805227   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 711023   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 329874   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.44  | 65   | 200651   | 51.92 | ug/l    | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 103.84% |          |
| 35) Dibromofluoromethane    | 6.90  | 113  | 295468   | 52.97 | ug/l    | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 105.94% |          |
| 50) Toluene-d8              | 10.40 | 98   | 638349   | 45.55 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.10%  |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 250016   | 50.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.90% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.57 | 85   | 263546   | 47.915  | ug/l   | 99     |
| 3) Chloromethane              | 1.74 | 50   | 212013   | 47.699  | ug/l   | 98     |
| 4) Vinyl Chloride             | 1.83 | 62   | 196408   | 47.289  | ug/l   | 98     |
| 5) Bromomethane               | 2.14 | 94   | 52695    | 54.815  | ug/l   | 98     |
| 6) Chloroethane               | 2.25 | 64   | 78497    | 60.341  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 2.51 | 101  | 327833   | 52.277  | ug/l   | 99     |
| 8) Diethyl Ether              | 2.86 | 74   | 93710    | 53.246  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.13 | 101  | 294744   | 47.806  | ug/l   | 96     |
| 10) Methyl Iodide             | 3.29 | 142  | 461524   | 50.183  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 4.03 | 59   | 74251    | 286.686 | ug/l # | 89     |
| 12) 1,1-Dichloroethene        | 3.11 | 96   | 238708   | 44.912  | ug/l   | 95     |
| 13) Acrolein                  | 3.02 | 56   | 79252    | 250.977 | ug/l   | 90     |
| 14) Allyl chloride            | 3.61 | 41   | 355966   | 49.104  | ug/l   | 97     |
| 15) Acrylonitrile             | 4.17 | 53   | 238126   | 267.090 | ug/l   | 100    |
| 16) Acetone                   | 3.20 | 43   | 257108   | 222.558 | ug/l   | 99     |
| 17) Carbon Disulfide          | 3.36 | 76   | 757033   | 43.835  | ug/l   | 99     |
| 18) Methyl Acetate            | 3.62 | 43   | 123241   | 56.701  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 4.22 | 73   | 532752   | 57.889  | ug/l   | 99     |
| 20) Methylene Chloride        | 3.79 | 84   | 313926   | 47.888  | ug/l   | 94     |
| 21) trans-1,2-Dichloroethene  | 4.20 | 96   | 285425   | 49.444  | ug/l   | 96     |
| 22) Diisopropyl ether         | 5.10 | 45   | 795089   | 52.313  | ug/l   | 96     |
| 23) Vinyl Acetate             | 5.03 | 43   | 2282897  | 272.215 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 4.97 | 63   | 486448   | 52.230  | ug/l   | 100    |
| 25) 2-Butanone                | 6.05 | 43   | 363692   | 273.083 | ug/l   | 100    |
| 26) 2,2-Dichloropropane       | 6.00 | 77   | 387895   | 51.149  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.02 | 96   | 340496   | 55.290  | ug/l   | 95     |
| 28) Bromochloromethane        | 6.41 | 49   | 193608   | 56.352  | ug/l   | 91     |
| 29) Tetrahydrofuran           | 6.43 | 42   | 177017   | 275.339 | ug/l   | 98     |
| 30) Chloroform                | 6.65 | 83   | 550676   | 56.440  | ug/l   | 99     |
| 31) Cyclohexane               | 6.93 | 56   | 343203   | 47.169  | ug/l   | 99     |
| 32) 1,1,1-Trichloroethane     | 6.86 | 97   | 459419   | 53.732  | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 7.13 | 75   | 391562   | 55.563  | ug/l   | 98     |
| 37) Ethyl Acetate             | 6.16 | 43   | 167238   | 58.263  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 7.09 | 117  | 474583m  | 57.460  | ug/l   |        |

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 Sample : VSTDCCC050  
 Misc : 5.00µl/MSVOA D/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 4/15/2019 12:32:01 AM

Quant Time: Apr 12 23:43:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Apr 08 10:04:03 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 8.85  | 83   | 371561   | 51.355   | ug/l   | 96       |
| 40) Benzene                    | 7.44  | 78   | 944888   | 55.578   | ug/l   | 99       |
| 41) Methacrylonitrile          | 6.41  | 41   | 206238   | 61.548   | ug/l # | 94       |
| 42) 1,2-Dichloroethane         | 7.56  | 62   | 325816   | 60.937   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 9.22  | 43   | 253320   | 60.809   | ug/l # | 98       |
| 44) Trichloroethene            | 8.52  | 130  | 370019   | 56.771   | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 8.92  | 63   | 250900   | 59.508   | ug/l   | 99       |
| 46) Dibromomethane             | 9.05  | 93   | 182076   | 60.424   | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.36  | 83   | 406495   | 61.421   | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.10  | 41   | 136507   | 56.846   | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.06  | 88   | 30522    | 1151.527 | ug/l # | 90       |
| 51) 4-Methyl-2-Pentanone       | 10.29 | 43   | 787294   | 319.563  | ug/l   | 99       |
| 52) Toluene                    | 10.50 | 92   | 586007   | 55.199   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.90 | 75   | 340344   | 58.667   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.03 | 75   | 408829   | 57.168   | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 11.18 | 97   | 200988   | 56.133   | ug/l   | 97       |
| 56) Ethyl methacrylate         | 11.03 | 69   | 238084   | 63.031   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 11.39 | 76   | 310457   | 59.207   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.84  | 63   | 469082   | 263.192  | ug/l   | 97       |
| 59) 2-Hexanone                 | 11.52 | 43   | 533644   | 279.103  | ug/l   | 97       |
| 60) Dibromochloromethane       | 11.68 | 129  | 356753   | 63.064   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.80 | 107  | 248609   | 59.371   | ug/l   | 99       |
| 64) Tetrachloroethene          | 11.25 | 164  | 283198   | 51.311   | ug/l   | 99       |
| 65) Chlorobenzene              | 12.39 | 112  | 738902   | 52.403   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 12.51 | 131  | 308587   | 56.873   | ug/l   | 98       |
| 67) Ethyl Benzene              | 12.52 | 91   | 1112708  | 51.821   | ug/l   | 99       |
| 68) m/p-Xylenes                | 12.65 | 106  | 853846   | 103.147  | ug/l   | 97       |
| 69) o-Xylene                   | 13.04 | 106  | 373354   | 46.723   | ug/l   | 96       |
| 70) Styrene                    | 13.07 | 104  | 695550   | 50.969   | ug/l   | 99       |
| 71) Bromoform                  | 13.22 | 173  | 187893   | 55.812   | ug/l   | 99       |
| 73) Isopropylbenzene           | 13.39 | 105  | 1130550  | 51.436   | ug/l   | 99       |
| 74) N-amyl acetate             | 13.25 | 43   | 314279   | 52.625   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.70 | 83   | 231866   | 51.019   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 13.73 | 75   | 231065   | 51.486   | ug/l   | 97       |
| 77) Bromobenzene               | 13.67 | 156  | 318760   | 49.963   | ug/l   | 79       |
| 78) n-propylbenzene            | 13.77 | 91   | 1236935  | 47.045   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 13.83 | 91   | 762470   | 50.712   | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 13.92 | 105  | 974184   | 55.841   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 13.47 | 75   | 75006    | 55.075   | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 13.94 | 91   | 922708   | 56.005   | ug/l   | 98       |
| 83) tert-Butylbenzene          | 14.19 | 119  | 1180029  | 56.100   | ug/l   | 90       |
| 84) 1,2,4-Trimethylbenzene     | 14.23 | 105  | 918747   | 52.180   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 14.36 | 105  | 1125406  | 49.521   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 14.48 | 119  | 973888   | 49.399   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 14.45 | 146  | 529611   | 48.235   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 14.53 | 146  | 588758   | 53.143   | ug/l   | 97       |
| 89) n-Butylbenzene             | 14.79 | 91   | 836233   | 48.800   | ug/l   | 99       |
| 90) Hexachloroethane           | 15.01 | 117  | 299255   | 55.942   | ug/l   | 65       |
| 91) 1,2-Dichlorobenzene        | 14.80 | 146  | 449939   | 49.721   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.37 | 75   | 33344    | 60.799   | ug/l   | 91       |

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Sample : VSTDCCC050  
Misc : 5.00g/5ml/MSVOA D/SOIL  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

MMDadoda  
4/15/2019 12:32:01 AM

Quant Time: Apr 12 23:43:02 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.M  
Quant Title : SW846 8260  
QLast Update : Mon Apr 08 10:04:03 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.94 | 180  | 280548   | 60.851 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 16.03 | 225  | 194196   | 54.550 | ug/l  | 99       |
| 95) Naphthalene            | 16.12 | 128  | 463323   | 63.512 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 16.27 | 180  | 179776   | 78.131 | ug/l  | 99       |

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

