

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV012419\  
 Data File : VV009259.D  
 Acq On : 24 Jan 2019 14:43  
 Operator : SY/MD  
 Sample : VSTDICC150  
 Misc : 5.00G/5ML/MSVOA V/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTDICC150

Quant Time: Jan 24 15:03:33 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\82V012219S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 23 01:54:58 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.73  | 168  | 92477    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.66  | 114  | 155308   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 8.90  | 117  | 144685   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 75761    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.07  | 65   | 162101   | 143.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 287.48% |          |
| 35) Dibromofluoromethane    | 4.64  | 113  | 151129   | 149.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 299.08% |          |
| 50) Toluene-d8              | 7.36  | 98   | 582044   | 147.98 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 295.96% |          |
| 62) 4-Bromofluorobenzene    | 10.12 | 95   | 221963   | 149.76 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 299.52% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.14 | 85   | 128803   | 172.192 | ug/l   | 98     |
| 3) Chloromethane              | 1.25 | 50   | 170994   | 169.823 | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.33 | 62   | 163903   | 143.270 | ug/l   | 100    |
| 5) Bromomethane               | 1.53 | 94   | 86612    | 133.497 | ug/l   | 98     |
| 6) Chloroethane               | 1.59 | 64   | 82768    | 129.443 | ug/l   | 99     |
| 7) Trichlorofluoromethane     | 1.75 | 101  | 80185    | 99.872  | ug/l   | 98     |
| 8) Diethyl Ether              | 1.96 | 74   | 74098    | 146.742 | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.13 | 101  | 130528   | 130.840 | ug/l   | 98     |
| 10) Methyl Iodide             | 2.26 | 142  | 230019   | 144.459 | ug/l   | 97     |
| 11) Tert butyl alcohol        | 2.66 | 59   | 53265    | 834.117 | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 2.14 | 96   | 138892   | 141.802 | ug/l   | 96     |
| 13) Acrolein                  | 2.06 | 56   | 34201    | 607.826 | ug/l   | 97     |
| 14) Allyl chloride            | 2.42 | 41   | 208958   | 123.782 | ug/l # | 95     |
| 15) Acrylonitrile             | 2.76 | 53   | 168482   | 770.278 | ug/l   | 99     |
| 16) Acetone                   | 2.18 | 43   | 168902   | 551.997 | ug/l   | 98     |
| 17) Carbon Disulfide          | 2.32 | 76   | 417371   | 139.298 | ug/l   | 100    |
| 18) Methyl Acetate            | 2.45 | 43   | 101178   | 123.800 | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 2.80 | 73   | 209423   | 137.741 | ug/l   | 99     |
| 20) Methylene Chloride        | 2.53 | 84   | 142095   | 148.558 | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 2.78 | 96   | 143311   | 135.803 | ug/l   | 94     |
| 22) Diisopropyl ether         | 3.33 | 45   | 480156   | 133.576 | ug/l   | 95     |
| 23) Vinyl Acetate             | 3.30 | 43   | 1535090  | 787.055 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 3.22 | 63   | 303635   | 135.768 | ug/l   | 98     |
| 25) 2-Butanone                | 4.01 | 43   | 275963   | 788.694 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 3.95 | 77   | 159675   | 126.864 | ug/l   | 96     |
| 27) cis-1,2-Dichloroethene    | 3.95 | 96   | 183869   | 144.168 | ug/l   | 95     |
| 28) Bromochloromethane        | 4.29 | 49   | 123503   | 149.647 | ug/l   | 94     |
| 29) Tetrahydrofuran           | 4.38 | 42   | 164833   | 866.143 | ug/l   | 97     |
| 30) Chloroform                | 4.42 | 83   | 302438   | 134.649 | ug/l   | 99     |
| 31) Cyclohexane               | 4.72 | 56   | 257053   | 125.906 | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 4.65 | 97   | 234025   | 123.617 | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 4.87 | 75   | 227018   | 131.655 | ug/l   | 98     |
| 37) Ethyl Acetate             | 4.12 | 43   | 114672   | 173.041 | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 4.87 | 117  | 229154   | 132.744 | ug/l   | 99     |

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 ClientSampleId :  
 VSTDICC150

Quant Time: Jan 24 15:03:33 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\82V012219S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 23 01:54:58 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 6.17  | 83   | 281490   | 137.854  | ug/l   | 98       |
| 40) Benzene                    | 5.14  | 78   | 677059   | 140.388  | ug/l   | 98       |
| 41) Methacrylonitrile          | 4.31  | 41   | 66690    | 166.980  | ug/l   | 95       |
| 42) 1,2-Dichloroethane         | 5.17  | 62   | 204431   | 135.438  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 5.32  | 43   | 215603   | 165.403  | ug/l   | 96       |
| 44) Trichloroethene            | 5.96  | 130  | 179235   | 141.231  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 6.22  | 63   | 164856   | 142.109  | ug/l   | 100      |
| 46) Dibromomethane             | 6.35  | 93   | 92485    | 155.370  | ug/l   | 95       |
| 47) Bromodichloromethane       | 6.55  | 83   | 225999   | 143.678  | ug/l   | 98       |
| 48) Methyl methacrylate        | 6.42  | 41   | 111479   | 167.598  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 6.41  | 88   | 30183    | 3980.602 | ug/l # | 90       |
| 51) 4-Methyl-2-Pentanone       | 7.27  | 43   | 566665   | 856.598  | ug/l   | 98       |
| 52) Toluene                    | 7.43  | 92   | 431802   | 141.539  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 7.69  | 75   | 236176   | 154.268  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 7.07  | 75   | 269049   | 152.621  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 7.88  | 97   | 126827   | 151.220  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 7.83  | 69   | 172915   | 176.962  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 8.05  | 76   | 229169   | 150.918  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 6.93  | 63   | 31902    | 2089.211 | ug/l # | 89       |
| 59) 2-Hexanone                 | 8.18  | 43   | 409961   | 856.812  | ug/l   | 98       |
| 60) Dibromochloromethane       | 8.29  | 129  | 155634   | 158.488  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 8.40  | 107  | 132065   | 161.021  | ug/l   | 98       |
| 64) Tetrachloroethene          | 8.02  | 164  | 148430   | 144.163  | ug/l   | 96       |
| 65) Chlorobenzene              | 8.93  | 112  | 475736   | 141.334  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 9.02  | 131  | 165495   | 143.859  | ug/l   | 98       |
| 67) Ethyl Benzene              | 9.05  | 91   | 837401   | 139.645  | ug/l   | 98       |
| 68) m/p-Xylenes                | 9.18  | 106  | 639400   | 280.863  | ug/l   | 97       |
| 69) o-Xylene                   | 9.59  | 106  | 307688   | 145.780  | ug/l   | 97       |
| 70) Styrene                    | 9.60  | 104  | 513971   | 152.583  | ug/l   | 96       |
| 71) Bromoform                  | 9.77  | 173  | 94984    | 175.093  | ug/l # | 97       |
| 73) Isopropylbenzene           | 9.98  | 105  | 834047   | 133.317  | ug/l   | 99       |
| 74) N-amyl acetate             | 9.84  | 43   | 200869   | 173.629  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 162779   | 154.338  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 10.32 | 75   | 123728   | 149.168  | ug/l   | 65       |
| 77) Bromobenzene               | 10.26 | 156  | 191950   | 143.445  | ug/l   | 95       |
| 78) n-propylbenzene            | 10.40 | 91   | 980030   | 132.141  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 10.47 | 91   | 578134   | 129.193  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 10.59 | 105  | 701128   | 133.632  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 10.05 | 75   | 52081    | 177.689  | ug/l   | 93       |
| 82) 4-Chlorotoluene            | 10.59 | 91   | 684527   | 129.873  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 10.91 | 119  | 682365   | 136.583  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 10.96 | 105  | 714904   | 135.071  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.14 | 105  | 869533   | 132.884  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 11.29 | 119  | 778065   | 135.801  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 11.23 | 146  | 381639   | 137.357  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 11.32 | 146  | 383786   | 136.636  | ug/l   | 98       |
| 89) n-Butylbenzene             | 11.70 | 91   | 741004   | 133.242  | ug/l   | 99       |
| 90) Hexachloroethane           | 11.95 | 117  | 144309   | 141.639  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 11.69 | 146  | 344570   | 140.489  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.48 | 75   | 29778    | 168.174  | ug/l   | 95       |

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Sample : VSTDICC150  
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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTDICC150

Quant Time: Jan 24 15:03:33 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\82V012219S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jan 23 01:54:58 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|----------------------------|-------|------|----------|---------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.31 | 180  | 244544   | 154.885 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.50 | 225  | 133351   | 136.274 | ug/l  | 100      |
| 95) Naphthalene            | 13.55 | 128  | 497663   | 182.294 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 13.80 | 180  | 212107   | 158.647 | ug/l  | 99       |

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

