

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY110220\  
 Data File : VY003472.D  
 Acq On : 02 Nov 2020 15:04  
 Operator : SY/MD  
 Sample : L4214-01 4PPBLOD  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 LOD-MDL-SOIL-01-QT4-2020

Quant Time: Nov 03 02:45:10 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y110220S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 03 02:36:44 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 229927   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 336115   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 297477   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 149125   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.15  | 65   | 125390   | 53.19 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.38% |          |
| 35) Dibromofluoromethane    | 7.73  | 113  | 104604   | 51.14 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.28% |          |
| 50) Toluene-d8              | 10.18 | 98   | 440172   | 51.73 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.46% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 141550   | 50.21 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.42% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.91 | 85   | 9044     | 4.971  | ug/l   | 96     |
| 3) Chloromethane              | 2.12 | 50   | 11941    | 4.986  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.26 | 62   | 13005    | 4.838  | ug/l   | 95     |
| 5) Bromomethane               | 2.66 | 94   | 10490    | 4.670  | ug/l   | 97     |
| 6) Chloroethane               | 2.80 | 64   | 7328     | 4.573  | ug/l # | 88     |
| 7) Trichlorofluoromethane     | 3.13 | 101  | 16787    | 4.919  | ug/l   | 97     |
| 8) Diethyl Ether              | 3.54 | 74   | 4930     | 4.711  | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.91 | 101  | 8584     | 4.551  | ug/l   | 95     |
| 10) Methyl Iodide             | 4.11 | 142  | 7626     | 4.900  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.97 | 59   | 9265     | 34.814 | ug/l # | 83     |
| 12) 1,1-Dichloroethene        | 3.88 | 96   | 8996     | 4.794  | ug/l   | 94     |
| 13) Acrolein                  | 3.74 | 56   | 5154     | 26.347 | ug/l   | 94     |
| 14) Allyl chloride            | 4.49 | 41   | 15593    | 4.555  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.18 | 53   | 12719    | 22.771 | ug/l   | 100    |
| 16) Acetone                   | 3.96 | 43   | 15399    | 19.803 | ug/l   | 96     |
| 17) Carbon Disulfide          | 4.21 | 76   | 28359    | 4.665  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.49 | 43   | 7315     | 4.978  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.24 | 73   | 20172    | 4.340  | ug/l # | 89     |
| 20) Methylene Chloride        | 4.73 | 84   | 14821    | 6.768  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.24 | 96   | 10091    | 4.644  | ug/l   | 88     |
| 22) Diisopropyl ether         | 6.14 | 45   | 25542    | 4.254  | ug/l   | 90     |
| 23) Vinyl Acetate             | 6.08 | 43   | 93090    | 20.630 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.04 | 63   | 17337    | 4.544  | ug/l   | 98     |
| 25) 2-Butanone                | 7.00 | 43   | 20622    | 21.204 | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 6.99 | 77   | 16851    | 4.740  | ug/l   | 95     |
| 27) cis-1,2-Dichloroethene    | 7.00 | 96   | 10623    | 4.512  | ug/l   | 96     |
| 28) Bromochloromethane        | 7.35 | 49   | 8563     | 4.461  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.36 | 42   | 11348    | 22.330 | ug/l   | 97     |
| 30) Chloroform                | 7.52 | 83   | 17121    | 4.568  | ug/l   | 95     |
| 31) Cyclohexane               | 7.80 | 56   | 18609    | 5.267  | ug/l # | 68     |
| 32) 1,1,1-Trichloroethane     | 7.72 | 97   | 15984    | 4.572  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 7.93 | 75   | 14508    | 4.578  | ug/l   | 98     |
| 37) Ethyl Acetate             | 7.08 | 43   | 9205     | 4.678  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 7.91 | 117  | 13684    | 4.162  | ug/l   | 99     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 9.19  | 83   | 15637    | 4.431  | ug/l   | 97       |
| 40) Benzene                    | 8.17  | 78   | 39549    | 4.484  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.33  | 41   | 4263m    | 4.057  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.25  | 62   | 12035    | 4.355  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.28  | 43   | 15559    | 4.399  | ug/l   | 99       |
| 44) Trichloroethene            | 8.95  | 130  | 11390    | 4.600  | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 9.22  | 63   | 9570     | 4.297  | ug/l   | 98       |
| 46) Dibromomethane             | 9.31  | 93   | 5202     | 4.246  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.50  | 83   | 12990    | 4.331  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.30  | 41   | 6712     | 4.029  | ug/l   | 95       |
| 49) 1,4-Dioxane                | 9.30  | 88   | 1322     | 86.470 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.07 | 43   | 39638    | 21.036 | ug/l   | 99       |
| 52) Toluene                    | 10.25 | 92   | 24099    | 4.369  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 13108    | 4.107  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.93  | 75   | 15634    | 4.353  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.65 | 97   | 7459     | 4.288  | ug/l   | 94       |
| 56) Ethyl methacrylate         | 10.51 | 69   | 9432     | 4.049  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 10.79 | 76   | 13560    | 4.483  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 9.78  | 63   | 24147    | 20.445 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.83 | 43   | 26895    | 19.278 | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.99 | 129  | 9155     | 4.282  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.09 | 107  | 7433     | 4.427  | ug/l   | 95       |
| 64) Tetrachloroethene          | 10.72 | 164  | 10204    | 4.593  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.52 | 112  | 26029    | 4.504  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.59 | 131  | 9740     | 4.469  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.60 | 91   | 45373    | 4.330  | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.70 | 106  | 33931    | 8.544  | ug/l   | 100      |
| 69) o-Xylene                   | 12.03 | 106  | 15345    | 4.201  | ug/l   | 99       |
| 70) Styrene                    | 12.05 | 104  | 25257    | 4.072  | ug/l   | 97       |
| 71) Bromoform                  | 12.20 | 173  | 5955     | 4.099  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.33 | 105  | 42425    | 4.355  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.14 | 43   | 11057    | 4.007  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 9250     | 4.446  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 7234m    | 4.585  | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 11071    | 4.473  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.67 | 91   | 51483    | 4.487  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 28831    | 4.497  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 34882    | 4.322  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 3366     | 4.453  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.85 | 91   | 29944    | 4.470  | ug/l   | 97       |
| 83) tert-Butylbenzene          | 13.08 | 119  | 32114    | 4.486  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 33762    | 4.185  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.25 | 105  | 42219    | 4.356  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.37 | 119  | 37425    | 4.163  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.36 | 146  | 20658    | 4.481  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.44 | 146  | 21190    | 4.622  | ug/l   | 95       |
| 89) n-Butylbenzene             | 13.70 | 91   | 36207    | 4.410  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.95 | 117  | 6685     | 4.419  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.73 | 146  | 18156    | 4.433  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 1826     | 4.848  | ug/l   | 89       |

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ALS Vial : 15 Sample Multiplier: 1

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Quant Title : SW846 8260  
QLast Update : Tue Nov 03 02:36:44 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.00 | 180  | 13014    | 4.492 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 15.11 | 225  | 8115     | 4.354 | ug/l  | 95       |
| 95) Naphthalene            | 15.23 | 128  | 24114    | 4.157 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.42 | 180  | 11257    | 4.320 | ug/l  | 99       |

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

