

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101320\  
 Data File : VD067255.D  
 Acq On : 13 Oct 2020 16:36  
 Operator : VA/SY  
 Sample : L4214-02 5PPBL00  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1016

Manual Integrations  
 APPROVED

MMDadoda  
 10/14/2020 2:10:28 PM

Quant Time: Oct 14 03:29:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 14 03:18:10 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 1) Pentafluorobenzene         | 7.98   | 168  | 333107   | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.87   | 114  | 528226   | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.65  | 117  | 490844   | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.58  | 152  | 245671   | 50.00  | ug/l   | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.33   | 65   | 166451   | 49.88  | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =      | 99.76% |          |
| 35) Dibromofluoromethane      | 7.92   | 113  | 170063   | 48.38  | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =      | 96.76% |          |
| 50) Toluene-d8                | 10.34  | 98   | 621288   | 48.84  | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =      | 97.68% |          |
| 62) 4-Bromofluorobenzene      | 12.64  | 95   | 213518   | 48.27  | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =      | 96.54% |          |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.99   | 85   | 16515    | 5.466  | ug/l   | 99       |
| 3) Chloromethane              | 2.20   | 50   | 11810    | 5.633  | ug/l   | 100      |
| 4) Vinyl Chloride             | 2.35   | 62   | 13279    | 5.773  | ug/l   | 96       |
| 5) Bromomethane               | 2.77   | 94   | 11526    | 6.482  | ug/l # | 79       |
| 6) Chloroethane               | 2.92   | 64   | 7646     | 5.337  | ug/l # | 84       |
| 7) Trichlorofluoromethane     | 3.28   | 101  | 29668    | 5.122  | ug/l   | 92       |
| 8) Diethyl Ether              | 3.71   | 74   | 7680     | 5.795  | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09   | 101  | 15674    | 5.093  | ug/l # | 26       |
| 10) Methyl Iodide             | 4.31   | 142  | 13796    | 4.860  | ug/l   | 98       |
| 11) Tert butyl alcohol        | 5.20   | 59   | 10932m   | 45.106 | ug/l   |          |
| 12) 1,1-Dichloroethene        | 4.07   | 96   | 14234    | 5.178  | ug/l # | 76       |
| 13) Acrolein                  | 3.93   | 56   | 4059     | 23.505 | ug/l   | 96       |
| 14) Allyl chloride            | 4.71   | 41   | 16687    | 5.300  | ug/l   | 97       |
| 15) Acrylonitrile             | 5.42   | 53   | 11426    | 25.836 | ug/l # | 88       |
| 16) Acetone                   | 4.16   | 43   | 11861    | 25.378 | ug/l # | 85       |
| 17) Carbon Disulfide          | 4.41   | 76   | 43531    | 5.554  | ug/l   | 100      |
| 18) Methyl Acetate            | 4.73   | 43   | 7402     | 6.944  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether   | 5.48   | 73   | 27855    | 5.096  | ug/l   | 93       |
| 20) Methylene Chloride        | 4.97   | 84   | 29280    | 8.308  | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene  | 5.47   | 96   | 16756    | 5.296  | ug/l   | 93       |
| 22) Diisopropyl ether         | 6.37   | 45   | 31226    | 5.429  | ug/l   | 97       |
| 23) Vinyl Acetate             | 6.31   | 43   | 69925    | 21.371 | ug/l   | 99       |
| 24) 1,1-Dichloroethane        | 6.26   | 63   | 26604    | 5.404  | ug/l   | 96       |
| 25) 2-Butanone                | 7.22   | 43   | 13640    | 25.602 | ug/l   | 99       |
| 26) 2,2-Dichloropropane       | 7.20   | 77   | 26092    | 5.142  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene    | 7.21   | 96   | 17643    | 5.088  | ug/l   | 89       |
| 28) Bromochloromethane        | 7.55   | 49   | 9548     | 5.686  | ug/l # | 99       |
| 29) Tetrahydrofuran           | 7.57   | 42   | 7895     | 26.658 | ug/l   | 93       |
| 30) Chloroform                | 7.71   | 83   | 31923    | 5.428  | ug/l # | 78       |
| 31) Cyclohexane               | 7.98   | 56   | 24066    | 6.261  | ug/l # | 76       |
| 32) 1,1,1-Trichloroethane     | 7.90   | 97   | 30260    | 5.244  | ug/l   | 99       |
| 36) 1,1-Dichloropropene       | 8.11   | 75   | 21617    | 4.828  | ug/l   | 95       |
| 37) Ethyl Acetate             | 7.28   | 43   | 6962     | 5.285  | ug/l # | 70       |
| 38) Carbon Tetrachloride      | 8.10   | 117  | 29843    | 5.215  | ug/l   | 94       |

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Quant Time: Oct 14 03:29:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 14 03:18:10 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 22281    | 4.760   | ug/l   | 98       |
| 40) Benzene                    | 8.35  | 78   | 62433    | 5.083   | ug/l   | 96       |
| 41) Methacrylonitrile          | 7.54  | 41   | 4138     | 5.813   | ug/l # | 74       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 19171    | 4.988   | ug/l   | 96       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 12933    | 4.948   | ug/l   | 95       |
| 44) Trichloroethene            | 9.11  | 130  | 20903    | 5.315   | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 14453    | 5.077   | ug/l   | 90       |
| 46) Dibromomethane             | 9.48  | 93   | 8754     | 4.936   | ug/l   | 94       |
| 47) Bromodichloromethane       | 9.66  | 83   | 24099    | 5.072   | ug/l # | 95       |
| 48) Methyl methacrylate        | 9.46  | 41   | 6678     | 5.257   | ug/l   | 87       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 1964     | 105.211 | ug/l # | 87       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 29218    | 22.412  | ug/l   | 100      |
| 52) Toluene                    | 10.41 | 92   | 42644    | 5.098   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 20288    | 4.860   | ug/l   | 89       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 23328    | 4.775   | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 12720    | 5.260   | ug/l   | 90       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 11694    | 4.662   | ug/l # | 93       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 18464    | 4.797   | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 29554    | 22.969  | ug/l   | 95       |
| 59) 2-Hexanone                 | 10.99 | 43   | 20570    | 23.091  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.14 | 129  | 18076    | 5.125   | ug/l   | 96       |
| 61) 1,2-Dibromoethane          | 11.26 | 107  | 11563    | 4.850   | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.88 | 164  | 19296    | 5.426   | ug/l   | 98       |
| 65) Chlorobenzene              | 11.67 | 112  | 48189    | 5.120   | ug/l # | 88       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 19252    | 5.146   | ug/l   | 96       |
| 67) Ethyl Benzene              | 11.75 | 91   | 76700    | 4.754   | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.86 | 106  | 60816    | 9.788   | ug/l   | 99       |
| 69) o-Xylene                   | 12.19 | 106  | 28134    | 4.890   | ug/l   | 92       |
| 70) Styrene                    | 12.20 | 104  | 44670    | 4.510   | ug/l   | 95       |
| 71) Bromoform                  | 12.37 | 173  | 10208    | 5.079   | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.48 | 105  | 72715    | 4.664   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.30 | 43   | 10492    | 4.455   | ug/l # | 93       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 12596    | 5.272   | ug/l   | 93       |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 9381m    | 5.509   | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 20435    | 5.257   | ug/l   | 96       |
| 78) n-propylbenzene            | 12.83 | 91   | 89050    | 4.929   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 50324    | 4.804   | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 66915    | 4.939   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.54 | 75   | 3289m    | 4.380   | ug/l   |          |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 54955    | 4.942   | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 55778    | 4.873   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 13.28 | 105  | 64139    | 4.789   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 75553    | 4.811   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 68441    | 4.617   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 39001    | 5.213   | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 39433    | 5.320   | ug/l   | 92       |
| 89) n-Butylbenzene             | 13.85 | 91   | 64070    | 4.913   | ug/l   | 97       |
| 90) Hexachloroethane           | 14.12 | 117  | 13450    | 5.200   | ug/l   | 83       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 32476    | 4.969   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.52 | 75   | 2449     | 5.643   | ug/l   | 80       |

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ALS Vial : 16 Sample Multiplier: 1

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 14 03:18:10 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 21791    | 4.945 | ug/l  | 94       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 13812    | 5.047 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 32064    | 4.432 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 18468    | 4.851 | ug/l  | 95       |

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

