

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY020420\  
 Data File : VY001497.D  
 Acq On : 04 Feb 2020 19:12  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 2/5/2020 12:24:09 PM

Quant Time: Feb 05 06:03:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y020420S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 04 15:10:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.82  | 168  | 233458   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 412177   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 367867   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 172683   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.16   | 65  | 131860   | 56.10 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 112.20% |      |
| 35) Dibromofluoromethane  | 7.75   | 113 | 124393   | 52.34 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.68% |      |
| 50) Toluene-d8            | 10.19  | 98  | 485182   | 53.95 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.90% |      |
| 62) 4-Bromofluorobenzene  | 12.49  | 95  | 182947   | 51.64 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.28% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.91 | 85  | 119813  | 52.429  | ug/l | 97     |
| 3) Chloromethane              | 2.13 | 50  | 126305  | 52.881  | ug/l | 99     |
| 4) Vinyl Chloride             | 2.26 | 62  | 130504  | 52.621  | ug/l | 98     |
| 5) Bromomethane               | 2.66 | 94  | 84209   | 53.990  | ug/l | 97     |
| 6) Chloroethane               | 2.81 | 64  | 79440   | 53.140  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 3.15 | 101 | 214251  | 52.191  | ug/l | 97     |
| 8) Diethyl Ether              | 3.55 | 74  | 78360   | 56.565  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.92 | 101 | 130512  | 52.839  | ug/l | 100    |
| 10) Methyl Iodide             | 4.11 | 142 | 168615  | 53.575  | ug/l | 99     |
| 11) Tert butyl alcohol        | 4.99 | 59  | 79845   | 310.212 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 3.90 | 96  | 128766  | 52.461  | ug/l | 98     |
| 13) Acrolein                  | 3.75 | 56  | 64049   | 287.766 | ug/l | 98     |
| 14) Allyl chloride            | 4.51 | 41  | 201951  | 53.784  | ug/l | 99     |
| 15) Acrylonitrile             | 5.20 | 53  | 191349  | 301.303 | ug/l | 99     |
| 16) Acetone                   | 3.97 | 43  | 203480  | 299.265 | ug/l | 98     |
| 17) Carbon Disulfide          | 4.22 | 76  | 413595  | 52.932  | ug/l | 99     |
| 18) Methyl Acetate            | 4.50 | 43  | 86164   | 59.384  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 5.25 | 73  | 376787  | 57.723  | ug/l | 97     |
| 20) Methylene Chloride        | 4.75 | 84  | 147694  | 56.047  | ug/l | 94     |
| 21) trans-1,2-Dichloroethene  | 5.25 | 96  | 145522  | 53.332  | ug/l | 98     |
| 22) Diisopropyl ether         | 6.15 | 45  | 413594  | 55.597  | ug/l | 99     |
| 23) Vinyl Acetate             | 6.09 | 43  | 1341586 | 283.293 | ug/l | 98     |
| 24) 1,1-Dichloroethane        | 6.05 | 63  | 242546  | 54.205  | ug/l | 99     |
| 25) 2-Butanone                | 7.02 | 43  | 273622  | 310.192 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 7.01 | 77  | 214184  | 50.014  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 7.02 | 96  | 161336  | 54.134  | ug/l | 100    |
| 28) Bromochloromethane        | 7.36 | 49  | 93637   | 61.428  | ug/l | 99     |
| 29) Tetrahydrofuran           | 7.38 | 42  | 167463  | 316.740 | ug/l | 99     |
| 30) Chloroform                | 7.53 | 83  | 248803  | 54.894  | ug/l | 99     |
| 31) Cyclohexane               | 7.81 | 56  | 232165  | 50.723  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 7.73 | 97  | 220129  | 53.568  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 7.94 | 75  | 197374  | 52.345  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.10 | 43  | 112158  | 61.445  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 7.92 | 117 | 190599  | 52.246  | ug/l | 96     |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.20  | 83   | 257599   | 51.884   | ug/l   | 98       |
| 40) Benzene                    | 8.18  | 78   | 573510   | 53.325   | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.34  | 41   | 53551m   | 63.300   | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.26  | 62   | 165900   | 55.367   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.30  | 43   | 218700   | 60.513   | ug/l   | 98       |
| 44) Trichloroethene            | 8.96  | 130  | 152070   | 52.456   | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.23  | 63   | 140999   | 54.291   | ug/l   | 99       |
| 46) Dibromomethane             | 9.32  | 93   | 81356    | 55.787   | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.51  | 83   | 195792   | 55.102   | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.31  | 41   | 97455    | 59.412   | ug/l   | 100      |
| 49) 1,4-Dioxane                | 9.31  | 88   | 24108    | 1251.748 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 550448   | 309.268  | ug/l   | 99       |
| 52) Toluene                    | 10.25 | 92   | 358832   | 52.583   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 214172   | 55.339   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.94  | 75   | 241989   | 54.464   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.66 | 97   | 117990   | 56.391   | ug/l   | 100      |
| 56) Ethyl methacrylate         | 10.52 | 69   | 176579   | 59.334   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.80 | 76   | 203808   | 55.258   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.80  | 63   | 313926   | 286.744  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.84 | 43   | 412134   | 318.471  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.99 | 129  | 138783   | 56.271   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.10 | 107  | 117051   | 56.798   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.73 | 164  | 142010   | 58.864   | ug/l   | 98       |
| 65) Chlorobenzene              | 11.52 | 112  | 380348   | 52.658   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.60 | 131  | 132919   | 52.579   | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.60 | 91   | 693612   | 51.936   | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.70 | 106  | 516765   | 103.073  | ug/l   | 99       |
| 69) o-Xylene                   | 12.03 | 106  | 250277   | 52.945   | ug/l   | 100      |
| 70) Styrene                    | 12.05 | 104  | 433517   | 53.032   | ug/l   | 100      |
| 71) Bromoform                  | 12.21 | 173  | 81530    | 57.919   | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.33 | 105  | 669262   | 50.816   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.14 | 43   | 207199   | 60.543   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 143989   | 57.544   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 96242m   | 51.826   | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 149380   | 52.411   | ug/l   | 95       |
| 78) n-propylbenzene            | 12.67 | 91   | 800756   | 50.787   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.76 | 91   | 464448   | 51.678   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 570797   | 51.462   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 54742    | 57.039   | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 484949   | 51.465   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.08 | 119  | 471605   | 50.302   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.13 | 105  | 563505   | 51.331   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.25 | 105  | 673844   | 51.120   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.38 | 119  | 595432   | 51.260   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.37 | 146  | 280366   | 51.328   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.45 | 146  | 286563   | 52.367   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.70 | 91   | 595752   | 51.980   | ug/l   | 100      |
| 90) Hexachloroethane           | 13.96 | 117  | 119253   | 53.488   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 263467   | 53.226   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 27296    | 59.091   | ug/l   | 98       |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.01 | 180  | 179373   | 53.773 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.12 | 225  | 87908    | 51.925 | ug/l  | 98       |
| 95) Naphthalene            | 15.24 | 128  | 435978   | 55.612 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.43 | 180  | 159556   | 54.187 | ug/l  | 99       |

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

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