

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX050720\  
 Data File : VX016106.D  
 Acq On : 07 May 2020 19:51  
 Operator : JC/SP  
 Sample : L2543-06MSD  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS038RW151-200503MSD

Manual Integrations  
 APPROVED

MMDadoda  
 5/8/2020 11:51:05 AM

Quant Time: May 08 04:37:12 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 06 06:43:32 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 279527   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 449299   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 423694   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 216851   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.04   | 65  | 180276   | 49.01 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.02%  |      |
| 35) Dibromofluoromethane  | 5.47   | 113 | 141728   | 49.79 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.58%  |      |
| 50) Toluene-d8            | 8.70   | 98  | 551645   | 50.30 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.60% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 213378   | 51.15 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.30% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 148347  | 50.139  | ug/l | 99     |
| 3) Chloromethane              | 1.31 | 50  | 165721  | 48.230  | ug/l | 100    |
| 4) Vinyl Chloride             | 1.39 | 62  | 184854  | 50.425  | ug/l | 100    |
| 5) Bromomethane               | 1.62 | 94  | 89601   | 48.481  | ug/l | 100    |
| 6) Chloroethane               | 1.71 | 64  | 107709  | 48.289  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.91 | 101 | 230983  | 47.994  | ug/l | 98     |
| 8) Diethyl Ether              | 2.17 | 74  | 96090   | 47.385  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101 | 136392  | 49.120  | ug/l | 100    |
| 10) Methyl Iodide             | 2.49 | 142 | 177114  | 47.487  | ug/l | 100    |
| 11) Tert butyl alcohol        | 3.02 | 59  | 218034  | 234.409 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 139490  | 48.005  | ug/l | 96     |
| 13) Acrolein                  | 2.27 | 56  | 126959  | 218.123 | ug/l | 99     |
| 14) Allyl chloride            | 2.71 | 41  | 256345  | 48.115  | ug/l | 98     |
| 15) Acrylonitrile             | 3.12 | 53  | 483918  | 250.788 | ug/l | 99     |
| 16) Acetone                   | 2.42 | 43  | 399068  | 243.153 | ug/l | 97     |
| 17) Carbon Disulfide          | 2.55 | 76  | 419652  | 48.084  | ug/l | 98     |
| 18) Methyl Acetate            | 2.75 | 43  | 190746  | 47.269  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 508677  | 50.782  | ug/l | 99     |
| 20) Methylene Chloride        | 2.84 | 84  | 160100  | 47.320  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 156110  | 48.211  | ug/l | 99     |
| 22) Diisopropyl ether         | 3.82 | 45  | 503447  | 50.089  | ug/l | 99     |
| 23) Vinyl Acetate             | 3.79 | 43  | 2095726 | 236.997 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 283909  | 50.494  | ug/l | 99     |
| 25) 2-Butanone                | 4.64 | 43  | 670331  | 253.465 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.56 | 77  | 215871  | 42.041  | ug/l | 93     |
| 27) cis-1,2-Dichloroethene    | 4.57 | 96  | 315453  | 89.112  | ug/l | 94     |
| 28) Bromochloromethane        | 4.99 | 49  | 131687  | 51.364  | ug/l | 99     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 439104  | 250.579 | ug/l | 100    |
| 30) Chloroform                | 5.18 | 83  | 281607  | 50.303  | ug/l | 99     |
| 31) Cyclohexane               | 5.55 | 56  | 254250  | 49.757  | ug/l | 100    |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 253809  | 49.877  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 213936  | 48.372  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.80 | 43  | 239606  | 46.743  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 222397  | 49.472  | ug/l | 95     |

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 Sample : L2543-06MSD  
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 ALS Vial : 25 Sample Multiplier: 1

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 5/8/2020 11:51:05 AM

Quant Time: May 08 04:37:12 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 06 06:43:32 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 257877   | 48.417  | ug/l  | 99       |
| 40) Benzene                    | 6.12  | 78   | 646239   | 49.939  | ug/l  | 98       |
| 41) Methacrylonitrile          | 5.01  | 41   | 140340   | 50.695  | ug/l  | 99       |
| 42) 1,2-Dichloroethane         | 6.17  | 62   | 228928   | 49.109  | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.42  | 43   | 393446   | 48.106  | ug/l  | 100      |
| 44) Trichloroethene            | 7.19  | 130  | 213270   | 46.390  | ug/l  | 95       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 169223   | 51.680  | ug/l  | 98       |
| 46) Dibromomethane             | 7.64  | 93   | 110693   | 49.745  | ug/l  | 100      |
| 47) Bromodichloromethane       | 7.88  | 83   | 230163   | 50.787  | ug/l  | 98       |
| 48) Methyl methacrylate        | 7.75  | 41   | 193898   | 50.032  | ug/l  | 97       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 81818    | 880.260 | ug/l  | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 1287299  | 257.205 | ug/l  | 99       |
| 52) Toluene                    | 8.77  | 92   | 406546   | 50.402  | ug/l  | 99       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 262810   | 48.637  | ug/l  | 98       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 273123   | 48.392  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 161639   | 50.934  | ug/l  | 95       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 269157   | 51.959  | ug/l  | 98       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 281880   | 50.904  | ug/l  | 99       |
| 59) 2-Hexanone                 | 9.48  | 43   | 1007339  | 256.287 | ug/l  | 99       |
| 60) Dibromochloromethane       | 9.57  | 129  | 182070   | 52.092  | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 172328   | 50.132  | ug/l  | 98       |
| 64) Tetrachloroethene          | 9.32  | 164  | 240899   | 46.314  | ug/l  | 99       |
| 65) Chlorobenzene              | 10.12 | 112  | 921755   | 103.899 | ug/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 162273   | 49.488  | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.24 | 91   | 771319   | 48.727  | ug/l  | 100      |
| 68) m/p-Xylenes                | 10.34 | 106  | 583498   | 98.387  | ug/l  | 99       |
| 69) o-Xylene                   | 10.68 | 106  | 285846   | 50.142  | ug/l  | 99       |
| 70) Stvrene                    | 10.70 | 104  | 491107   | 50.779  | ug/l  | 99       |
| 71) Bromoform                  | 10.84 | 173  | 138272   | 51.757  | ug/l  | 99       |
| 73) Isopropylbenzene           | 11.01 | 105  | 773202   | 49.022  | ug/l  | 98       |
| 74) N-amyl acetate             | 10.88 | 43   | 334219   | 45.429  | ug/l  | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 178228   | 56.578  | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 237807m  | 48.326  | ug/l  |          |
| 77) Bromobenzene               | 11.24 | 156  | 191127   | 46.947  | ug/l  | 98       |
| 78) n-propylbenzene            | 11.35 | 91   | 877379   | 47.816  | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 11.41 | 91   | 515664   | 47.611  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 640884   | 48.125  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 96727    | 46.843  | ug/l  | 99       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 609889   | 47.685  | ug/l  | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 591828   | 51.568  | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 653034   | 48.504  | ug/l  | 100      |
| 85) sec-Butylbenzene           | 11.93 | 105  | 781716   | 50.448  | ug/l  | 97       |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 686791   | 47.737  | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 344886   | 47.181  | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 348212   | 46.933  | ug/l  | 99       |
| 89) n-Butylbenzene             | 12.37 | 91   | 614640   | 46.765  | ug/l  | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 120627   | 48.821  | ug/l  | 98       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 332370   | 47.220  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 60824    | 46.899  | ug/l  | 97       |
| 93) 1,2,4-Trichlorobenzene     | 13.63 | 180  | 238975   | 45.858  | ug/l  | 98       |

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ALS Vial : 25 Sample Multiplier: 1

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MSVOA\_X  
ClientSampleId :  
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Quant Time: May 08 04:37:12 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 06 06:43:32 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 94) Hexachlorobutadiene    | 13.77 | 225  | 106802   | 47.621 | ug/l  | 98       |
| 95) Naphthalene            | 13.82 | 128  | 807116   | 47.833 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 238099   | 46.751 | ug/l  | 99       |

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

