

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070720\  
 Data File : VX017240.D  
 Acq On : 08 Jul 2020 06:17  
 Operator : JC/SP  
 Sample : L3232-03MS  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 1004-MW-02MS

Manual Integrations  
 APPROVED

MMDadoda  
 7/8/2020 9:32:02 AM

Quant Time: Jul 08 07:18:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062920W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 29 17:10:38 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 267056   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 407434   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 397720   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 223912   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 166809   | 50.67 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.34% |      |
| 35) Dibromofluoromethane  | 5.46   | 113 | 135916   | 52.74 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.48% |      |
| 50) Toluene-d8            | 8.70   | 98  | 485260   | 50.92 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.84% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 198290   | 53.22 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.44% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 118709  | 45.947  | ug/l | 98     |
| 3) Chloromethane              | 1.31 | 50  | 127594  | 40.800  | ug/l | 98     |
| 4) Vinyl Chloride             | 1.39 | 62  | 137301  | 47.320  | ug/l | 99     |
| 5) Bromomethane               | 1.62 | 94  | 65378   | 42.648  | ug/l | 99     |
| 6) Chloroethane               | 1.70 | 64  | 79772   | 46.550  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 1.91 | 101 | 220711  | 51.432  | ug/l | 99     |
| 8) Diethyl Ether              | 2.17 | 74  | 75437   | 52.229  | ug/l | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101 | 125119  | 48.647  | ug/l | 97     |
| 10) Methyl Iodide             | 2.49 | 142 | 115108  | 34.684  | ug/l | 100    |
| 11) Tert butyl alcohol        | 3.02 | 59  | 175290  | 279.095 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 124992  | 47.307  | ug/l | 99     |
| 13) Acrolein                  | 2.27 | 56  | 117701  | 313.496 | ug/l | 99     |
| 14) Allyl chloride            | 2.71 | 41  | 214787  | 43.988  | ug/l | 99     |
| 15) Acrylonitrile             | 3.12 | 53  | 381493  | 252.670 | ug/l | 100    |
| 16) Acetone                   | 2.42 | 43  | 337647  | 274.152 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.55 | 76  | 331764  | 45.000  | ug/l | 99     |
| 18) Methyl Acetate            | 2.75 | 43  | 148210  | 46.098  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 452743  | 51.056  | ug/l | 99     |
| 20) Methylene Chloride        | 2.84 | 84  | 145687  | 51.602  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 148798  | 50.748  | ug/l | 96     |
| 22) Diisopropyl ether         | 3.82 | 45  | 451025  | 49.906  | ug/l | 97     |
| 23) Vinyl Acetate             | 3.79 | 43  | 1685190 | 216.998 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 252878  | 49.177  | ug/l | 99     |
| 25) 2-Butanone                | 4.64 | 43  | 528120  | 257.347 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 4.55 | 77  | 148166  | 32.451  | ug/l | 90     |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 321492  | 96.769  | ug/l | 93     |
| 28) Bromochloromethane        | 4.98 | 49  | 118408  | 47.319  | ug/l | 95     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 339681  | 250.518 | ug/l | 99     |
| 30) Chloroform                | 5.18 | 83  | 266597  | 50.575  | ug/l | 98     |
| 31) Cyclohexane               | 5.55 | 56  | 205116  | 46.147  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 244069  | 50.275  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 189031  | 49.089  | ug/l | 98     |
| 37) Ethyl Acetate             | 4.79 | 43  | 176633  | 45.209  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 224678  | 52.974  | ug/l | 98     |

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 Sample : L3232-03MS  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 1004-MW-02MS

Manual Integrations  
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 7/8/2020 9:32:02 AM

Quant Time: Jul 08 07:18:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062920W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 29 17:10:38 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 204091   | 47.635   | ug/l   | 99       |
| 40) Benzene                    | 6.12  | 78   | 558735   | 49.384   | ug/l   | 98       |
| 41) Methacrylonitrile          | 5.01  | 41   | 111895   | 50.885   | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 215809   | 52.807   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.42  | 43   | 297856   | 45.878   | ug/l   | 99       |
| 44) Trichloroethene            | 7.19  | 130  | 355864   | 114.380  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 147205   | 50.656   | ug/l   | 100      |
| 46) Dibromomethane             | 7.64  | 93   | 102857   | 51.844   | ug/l   | 97       |
| 47) Bromodichloromethane       | 7.88  | 83   | 218064   | 53.335   | ug/l   | 96       |
| 48) Methyl methacrylate        | 7.74  | 41   | 162097   | 52.553   | ug/l   | 97       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 81697    | 1169.144 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 1029153  | 265.927  | ug/l   | 100      |
| 52) Toluene                    | 8.76  | 92   | 364905   | 51.658   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 215182   | 47.701   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 226601   | 46.859   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 151306   | 52.426   | ug/l   | 100      |
| 56) Ethyl methacrylate         | 9.16  | 69   | 216895   | 52.800   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 255286   | 52.274   | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.47  | 43   | 799625   | 282.910  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.57  | 129  | 180974   | 53.988   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 162569   | 52.403   | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.32  | 164  | 589213   | 183.564  | ug/l   | 97       |
| 65) Chlorobenzene              | 10.12 | 112  | 401545   | 48.917   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 162705   | 51.432   | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.23 | 91   | 690985   | 50.405   | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.34 | 106  | 530617   | 100.808  | ug/l   | 97       |
| 69) o-Xylene                   | 10.68 | 106  | 255382   | 51.002   | ug/l   | 99       |
| 70) Stvrene                    | 10.70 | 104  | 454124   | 53.258   | ug/l   | 99       |
| 71) Bromoform                  | 10.84 | 173  | 144531   | 57.613   | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.00 | 105  | 691579   | 47.154   | ug/l   | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 254887   | 40.729   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 220087   | 47.706   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 207884m  | 47.213   | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 193284   | 47.951   | ug/l   | 96       |
| 78) n-propylbenzene            | 11.34 | 91   | 794280   | 47.891   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 483041   | 48.123   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 604638   | 49.701   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.05 | 75   | 69807    | 41.056   | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 578979   | 48.251   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 587453   | 49.191   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 618898   | 50.146   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.93 | 105  | 672281   | 47.891   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 640889   | 49.042   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 341820   | 46.691   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 348538   | 50.486   | ug/l   | 100      |
| 89) n-Butylbenzene             | 12.37 | 91   | 528582   | 45.300   | ug/l   | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 121797   | 47.262   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 332402   | 48.574   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 51487    | 46.783   | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene     | 13.63 | 180  | 215220   | 46.078   | ug/l   | 100      |

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Sample : L3232-03MS  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
1004-MW-02MS

Manual Integrations  
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7/8/2020 9:32:02 AM

Quant Time: Jul 08 07:18:21 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062920W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jun 29 17:10:38 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 94) Hexachlorobutadiene    | 13.76 | 225  | 77404    | 43.773 | ug/l  | 98       |
| 95) Naphthalene            | 13.82 | 128  | 695636   | 48.989 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 218035   | 48.236 | ug/l  | 99       |

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

