

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071619\  
 Data File : VX010919.D  
 Acq On : 16 Jul 2019 20:12  
 Operator : JC/SP  
 Sample : K3791-14MS  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-0604MS

Manual Integrations  
 APPROVED

MMDadoda  
 7/17/2019 1:23:15 PM

Quant Time: Jul 17 05:48:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071619W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 17 04:37:55 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 225339   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 344052   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 317761   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 178222   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.06   | 65  | 115345   | 48.12 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.24% |      |
| 35) Dibromofluoromethane  | 5.49   | 113 | 103650   | 47.46 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.92% |      |
| 50) Toluene-d8            | 8.71   | 98  | 387589   | 47.32 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.64% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 148828   | 49.43 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.86% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 121297  | 50.476  | ug/l   | 100    |
| 3) Chloromethane              | 1.32 | 50  | 109305  | 52.748  | ug/l   | 98     |
| 4) Vinyl Chloride             | 1.41 | 62  | 114423  | 54.135  | ug/l   | 97     |
| 5) Bromomethane               | 1.64 | 94  | 57383   | 48.177  | ug/l   | 100    |
| 6) Chloroethane               | 1.72 | 64  | 69647   | 51.851  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 188475  | 52.678  | ug/l   | 100    |
| 8) Diethyl Ether              | 2.19 | 74  | 63269   | 51.324  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 100359  | 49.126  | ug/l   | 99     |
| 10) Methyl Iodide             | 2.51 | 142 | 141559  | 52.804  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 3.04 | 59  | 122708  | 219.788 | ug/l # | 73     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 105163  | 52.394  | ug/l   | 98     |
| 13) Acrolein                  | 2.29 | 56  | 74713   | 231.621 | ug/l   | 99     |
| 14) Allyl chloride            | 2.73 | 41  | 153029  | 52.489  | ug/l   | 100    |
| 15) Acrylonitrile             | 3.14 | 53  | 321830  | 285.272 | ug/l   | 94     |
| 16) Acetone                   | 2.45 | 43  | 245168  | 226.437 | ug/l   | 98     |
| 17) Carbon Disulfide          | 2.57 | 76  | 272720  | 52.969  | ug/l   | 100    |
| 18) Methyl Acetate            | 2.78 | 43  | 111557  | 45.249  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 338883  | 52.447  | ug/l # | 1      |
| 20) Methylene Chloride        | 2.85 | 84  | 116121  | 50.608  | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 109883  | 51.596  | ug/l   | 95     |
| 22) Diisopropyl ether         | 3.85 | 45  | 318002  | 51.717  | ug/l   | 96     |
| 23) Vinyl Acetate             | 3.81 | 43  | 1237444 | 237.516 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 185404  | 51.919  | ug/l   | 99     |
| 25) 2-Butanone                | 4.67 | 43  | 399832  | 257.254 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 125868  | 42.928  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 129296  | 52.458  | ug/l   | 96     |
| 28) Bromochloromethane        | 5.01 | 49  | 80991   | 48.130  | ug/l   | 99     |
| 29) Tetrahydrofuran           | 5.13 | 42  | 255726  | 259.749 | ug/l   | 99     |
| 30) Chloroform                | 5.21 | 83  | 200380  | 51.914  | ug/l   | 94     |
| 31) Cyclohexane               | 5.58 | 56  | 682601  | 209.713 | ug/l   | 99     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 175821  | 52.651  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 146159  | 51.718  | ug/l   | 100    |
| 37) Ethyl Acetate             | 4.83 | 43  | 137684  | 47.579  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 5.79 | 117 | 155506  | 52.805  | ug/l   | 97     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071619\  
 Data File : VX010919.D  
 Acq On : 16 Jul 2019 20:12  
 Operator : JC/SP  
 Sample : K3791-14MS  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 FL-0604MS

Manual Integrations  
 APPROVED

MMDadoda  
 7/17/2019 1:23:15 PM

Quant Time: Jul 17 05:48:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071619W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 17 04:37:55 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 827236   | 225.720 | ug/l   | 99       |
| 40) Benzene                    | 6.14  | 78   | 442488   | 51.114  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.04  | 41   | 84739    | 51.583  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 6.19  | 62   | 155506   | 51.664  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.45  | 43   | 241516   | 50.757  | ug/l   | 98       |
| 44) Trichloroethene            | 7.21  | 130  | 130426   | 50.899  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 119690   | 54.322  | ug/l   | 100      |
| 46) Dibromomethane             | 7.66  | 93   | 82180    | 52.197  | ug/l   | 100      |
| 47) Bromodichloromethane       | 7.90  | 83   | 150145   | 53.573  | ug/l   | 100      |
| 48) Methyl methacrylate        | 7.77  | 41   | 151559   | 65.383  | ug/l   | 89       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 58195    | 897.514 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 823820   | 267.082 | ug/l   | 99       |
| 52) Toluene                    | 8.78  | 92   | 289395   | 50.888  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 158803   | 52.697  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 174236   | 51.960  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 117351   | 50.116  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 193400   | 56.465  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 192501   | 51.823  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.49  | 43   | 639045   | 267.114 | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.58  | 129  | 130323   | 48.443  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 131932   | 53.091  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 114043   | 45.621  | ug/l   | 95       |
| 65) Chlorobenzene              | 10.13 | 112  | 327639   | 50.201  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 121297   | 52.881  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 1149097  | 103.439 | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 659284   | 154.714 | ug/l   | 100      |
| 69) o-Xylene                   | 10.69 | 106  | 222702   | 53.549  | ug/l   | 99       |
| 70) Styrene                    | 10.71 | 104  | 372279   | 53.698  | ug/l   | 99       |
| 71) Bromoform                  | 10.85 | 173  | 99690    | 47.848  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 851985   | 70.749  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 213202   | 46.335  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 196123   | 49.765  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 158836m  | 49.388  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 157079   | 47.288  | ug/l   | 97       |
| 78) n-propylbenzene            | 11.36 | 91   | 1273578  | 95.715  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 421595   | 52.745  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 1063569  | 105.695 | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 52304    | 41.904  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 525411   | 56.476  | ug/l   | 93       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 518604   | 52.469  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 2301542  | 226.928 | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 659658   | 56.958  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 628278   | 58.679  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 286388   | 49.681  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 288317   | 48.767  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.38 | 91   | 582041   | 63.540  | ug/l   | 88       |
| 90) Hexachloroethane           | 12.59 | 117  | 122529   | 72.554  | ug/l   | 72       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 286504   | 50.148  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 46868    | 56.894  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 199819   | 51.608  | ug/l   | 97       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071619\  
Data File : VX010919.D  
Acq On : 16 Jul 2019 20:12  
Operator : JC/SP  
Sample : K3791-14MS  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0604MS

Manual Integrations  
APPROVED

MMDadoda  
7/17/2019 1:23:15 PM

Quant Time: Jul 17 05:48:37 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071619W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jul 17 04:37:55 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 94) Hexachlorobutadiene    | 13.78 | 225  | 95767    | 49.913 | ug/l  | 98       |
| 95) Naphthalene            | 13.83 | 128  | 792241   | 69.292 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 197373   | 51.233 | ug/l  | 97       |

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071619\  
Data File : VX010919.D  
Acq On : 16 Jul 2019 20:12  
Operator : JC/SP  
Sample : K3791-14MS  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleID :  
FL-0604MS

Manual Integrations  
APPROVED

MMDadoda  
7/17/2019 1:23:15 PM

Quant Time: Jul 17 05:48:37 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071619W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jul 17 04:37:55 2019  
Response via : Initial Calibration

