

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072319\  
 Data File : VX011051.D  
 Acq On : 23 Jul 2019 11:43  
 Operator : JC/SP  
 Sample : VX0723WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0723WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 7/25/2019 3:06:56 PM

Quant Time: Jul 24 05:12:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071619W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 20 04:05:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 226093   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 331153   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 298867   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 156641   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 112289   | 46.68 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.36% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 102286   | 48.66 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.32% |          |
| 50) Toluene-d8              | 8.71  | 98   | 382392   | 48.51 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.02% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 141562   | 48.85 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.70% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 44204    | 18.681 | ug/l  | 99     |
| 3) Chloromethane              | 1.33 | 50   | 37318    | 17.949 | ug/l  | 96     |
| 4) Vinyl Chloride             | 1.41 | 62   | 38989    | 18.385 | ug/l  | 99     |
| 5) Bromomethane               | 1.64 | 94   | 22833    | 19.106 | ug/l  | 99     |
| 6) Chloroethane               | 1.72 | 64   | 25149    | 18.661 | ug/l  | 92     |
| 7) Trichlorofluoromethane     | 1.93 | 101  | 70332    | 19.592 | ug/l  | 95     |
| 8) Diethyl Ether              | 2.19 | 74   | 22721    | 18.370 | ug/l  | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101  | 40298    | 19.660 | ug/l  | 99     |
| 10) Methyl Iodide             | 2.51 | 142  | 45551    | 16.935 | ug/l  | 99     |
| 11) Tert butyl alcohol        | 3.04 | 59   | 53188    | 94.950 | ug/l  | 98     |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 38236    | 18.986 | ug/l  | 98     |
| 13) Acrolein                  | 2.29 | 56   | 26489    | 81.846 | ug/l  | 100    |
| 14) Allyl chloride            | 2.73 | 41   | 54150    | 18.511 | ug/l  | 100    |
| 15) Acrylonitrile             | 3.14 | 53   | 106283   | 93.896 | ug/l  | 100    |
| 16) Acetone                   | 2.44 | 43   | 102723   | 94.559 | ug/l  | 99     |
| 17) Carbon Disulfide          | 2.57 | 76   | 84206    | 16.301 | ug/l  | 99     |
| 18) Methyl Acetate            | 2.78 | 43   | 47687    | 19.278 | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73   | 123639   | 19.071 | ug/l  | 99     |
| 20) Methylene Chloride        | 2.85 | 84   | 42446    | 18.437 | ug/l  | 98     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96   | 39337    | 18.409 | ug/l  | 98     |
| 22) Diisopropyl ether         | 3.85 | 45   | 116816   | 18.934 | ug/l  | 96     |
| 23) Vinyl Acetate             | 3.81 | 43   | 494027   | 94.508 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 67667    | 18.886 | ug/l  | 99     |
| 25) 2-Butanone                | 4.67 | 43   | 149875   | 96.109 | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 4.58 | 77   | 54660    | 18.580 | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96   | 46179    | 18.673 | ug/l  | 99     |
| 28) Bromochloromethane        | 5.02 | 49   | 30778    | 18.229 | ug/l  | 99     |
| 29) Tetrahydrofuran           | 5.13 | 42   | 92709    | 93.853 | ug/l  | 99     |
| 30) Chloroform                | 5.21 | 83   | 72654    | 18.760 | ug/l  | 98     |
| 31) Cyclohexane               | 5.58 | 56   | 60475    | 18.518 | ug/l  | 98     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97   | 62710    | 18.716 | ug/l  | 98     |
| 36) 1,1-Dichloropropene       | 5.80 | 75   | 52141    | 19.169 | ug/l  | 100    |
| 37) Ethyl Acetate             | 4.83 | 43   | 53689    | 19.276 | ug/l  | 98     |
| 38) Carbon Tetrachloride      | 5.79 | 117  | 53736    | 18.958 | ug/l  | 94     |

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 Operator : JC/SP  
 Sample : VX0723WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0723WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 7/25/2019 3:06:56 PM

Quant Time: Jul 24 05:12:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071619W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 20 04:05:59 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 67189    | 19.047  | ug/l   | 96       |
| 40) Benzene                    | 6.14  | 78   | 158756   | 19.053  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.04  | 41   | 29298    | 18.529  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.19  | 62   | 56621    | 19.544  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.44  | 43   | 86515    | 18.890  | ug/l   | 100      |
| 44) Trichloroethene            | 7.21  | 130  | 46697    | 18.933  | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 40759    | 19.219  | ug/l   | 98       |
| 46) Dibromomethane             | 7.66  | 93   | 29604    | 19.535  | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.90  | 83   | 52077    | 19.305  | ug/l   | 96       |
| 48) Methyl methacrylate        | 7.77  | 41   | 41657    | 18.671  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 23814    | 381.578 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 289771   | 97.603  | ug/l   | 99       |
| 52) Toluene                    | 8.78  | 92   | 105224   | 19.223  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 54235    | 18.698  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 61455    | 19.041  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 42999    | 19.079  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 63150    | 19.155  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 68928    | 19.279  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 158246   | 100.554 | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 228464   | 99.215  | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.58  | 129  | 44936    | 18.976  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 45989    | 19.227  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 47210    | 20.080  | ug/l   | 99       |
| 65) Chlorobenzene              | 10.13 | 112  | 118294   | 19.271  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 42055    | 19.493  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 204815   | 19.602  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.36 | 106  | 157104   | 39.198  | ug/l   | 98       |
| 69) o-Xylene                   | 10.69 | 106  | 76741    | 19.619  | ug/l   | 98       |
| 70) Styrene                    | 10.71 | 104  | 129869   | 19.917  | ug/l   | 99       |
| 71) Bromoform                  | 10.85 | 173  | 31283    | 17.663  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 207861   | 19.639  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 77346    | 19.125  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 67003    | 19.344  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 55889m   | 19.772  | ug/l   |          |
| 77) Bromobenzene               | 11.25 | 156  | 54897    | 18.804  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 231820   | 19.823  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 136807   | 19.474  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 174256   | 19.703  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 17644    | 18.535  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 160332   | 19.609  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 170361   | 19.611  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 175495   | 19.687  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 202017   | 19.846  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 188995   | 20.083  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 99528    | 19.644  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 99570    | 19.162  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.38 | 91   | 159865   | 19.857  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 28011    | 18.872  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 99441    | 19.804  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 14280    | 19.723  | ug/l   | 94       |

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Sample : VX0723WBS01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0723WBS01

Manual Integrations  
APPROVED

MMDadoda  
7/25/2019 3:06:56 PM

Quant Time: Jul 24 05:12:28 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071619W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 20 04:05:59 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 67236    | 19.758 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 34558    | 20.493 | ug/l  | 97       |
| 95) Naphthalene            | 13.83 | 128  | 199929   | 19.896 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 68182    | 20.137 | ug/l  | 99       |

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

