

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120420\  
 Data File : VX019722.D  
 Acq On : 04 Dec 2020 17:21  
 Operator : JC/MD  
 Sample : VX1204WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1204WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 12/7/2020 10:53:00 AM

Quant Time: Dec 05 04:21:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X120420W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 04 15:32:53 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 334903   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 558197   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 510445   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 248483   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |        |
|---------------------------|--------|-------|----------|----------|------|--------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65    | 219522   | 49.87    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 61 - 141 | Recovery | =    | 99.74% |
| 35) Dibromofluoromethane  | 5.46   | 113   | 176623   | 48.96    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 69 - 133 | Recovery | =    | 97.92% |
| 50) Toluene-d8            | 8.70   | 98    | 686625   | 49.85    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 65 - 126 | Recovery | =    | 99.70% |
| 62) 4-Bromofluorobenzene  | 11.12  | 95    | 256732   | 48.98    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 58 - 135 | Recovery | =    | 97.96% |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 64583  | 21.063  | ug/l | 100    |
| 3) Chloromethane              | 1.31 | 50  | 71802  | 19.912  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.39 | 62  | 79640  | 20.946  | ug/l | 97     |
| 5) Bromomethane               | 1.62 | 94  | 43554  | 34.498  | ug/l | 98     |
| 6) Chloroethane               | 1.71 | 64  | 49981  | 21.883  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 109181 | 20.619  | ug/l | 95     |
| 8) Diethyl Ether              | 2.17 | 74  | 45587  | 20.316  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101 | 65030  | 21.426  | ug/l | 99     |
| 10) Methyl Iodide             | 2.49 | 142 | 93651  | 20.934  | ug/l | 100    |
| 11) Tert butyl alcohol        | 3.01 | 59  | 93013  | 101.233 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 66302  | 21.608  | ug/l | 98     |
| 13) Acrolein                  | 2.27 | 56  | 44965  | 92.548  | ug/l | 99     |
| 14) Allyl chloride            | 2.71 | 41  | 106369 | 20.525  | ug/l | 100    |
| 15) Acrylonitrile             | 3.11 | 53  | 213430 | 107.259 | ug/l | 100    |
| 16) Acetone                   | 2.42 | 43  | 173711 | 104.996 | ug/l | 100    |
| 17) Carbon Disulfide          | 2.55 | 76  | 171266 | 19.452  | ug/l | 99     |
| 18) Methyl Acetate            | 2.75 | 43  | 87774  | 21.680  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 236821 | 21.193  | ug/l | 99     |
| 20) Methylene Chloride        | 2.83 | 84  | 80297  | 20.418  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 74304  | 20.771  | ug/l | 98     |
| 22) Diisopropyl ether         | 3.82 | 45  | 220777 | 21.071  | ug/l | 97     |
| 23) Vinyl Acetate             | 3.78 | 43  | 950448 | 106.473 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 132207 | 20.924  | ug/l | 99     |
| 25) 2-Butanone                | 4.63 | 43  | 272188 | 107.066 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 4.55 | 77  | 111316 | 20.458  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 85530  | 20.430  | ug/l | 98     |
| 28) Bromochloromethane        | 4.98 | 49  | 64314  | 21.352  | ug/l | 99     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 172895 | 105.557 | ug/l | 99     |
| 30) Chloroform                | 5.17 | 83  | 135115 | 20.797  | ug/l | 100    |
| 31) Cyclohexane               | 5.54 | 56  | 114445 | 20.902  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 116253 | 20.778  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 101050 | 20.033  | ug/l | 98     |
| 37) Ethyl Acetate             | 4.79 | 43  | 104562 | 20.531  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 5.75 | 117 | 98664  | 19.975  | ug/l | 99     |

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 Operator : JC/MD  
 Sample : VX1204WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1204WBS01

Manual Integrations  
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MMDadoda  
 12/7/2020 10:53:00 AM

Quant Time: Dec 05 04:21:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X120420W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 04 15:32:53 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 115371   | 19.468  | ug/l   | 98       |
| 40) Benzene                    | 6.11  | 78   | 311975   | 20.247  | ug/l   | 98       |
| 41) Methacrylonitrile          | 5.00  | 41   | 57552    | 20.582  | ug/l   | 100      |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 107571   | 20.434  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.41  | 43   | 166945   | 20.163  | ug/l   | 100      |
| 44) Trichloroethene            | 7.18  | 130  | 79356    | 19.629  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 78533    | 20.393  | ug/l   | 99       |
| 46) Dibromomethane             | 7.63  | 93   | 53018    | 20.387  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.87  | 83   | 102947   | 19.950  | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.74  | 41   | 82958    | 20.372  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 41502    | 420.716 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 528029   | 104.454 | ug/l   | 100      |
| 52) Toluene                    | 8.76  | 92   | 192701   | 19.996  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 114764   | 20.041  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 125152   | 20.117  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 80819    | 20.811  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 118889   | 20.234  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 134945   | 20.350  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 314821   | 101.142 | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.47  | 43   | 407154   | 103.908 | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.56  | 129  | 80049    | 20.288  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 84397    | 20.466  | ug/l   | 98       |
| 64) Tetrachloroethene          | 9.32  | 164  | 65707    | 19.195  | ug/l   | 97       |
| 65) Chlorobenzene              | 10.12 | 112  | 206392   | 20.295  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.20 | 131  | 74790    | 20.433  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.23 | 91   | 366856   | 20.323  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.34 | 106  | 277875   | 40.852  | ug/l   | 100      |
| 69) o-Xylene                   | 10.68 | 106  | 134975   | 20.628  | ug/l   | 99       |
| 70) Styrene                    | 10.70 | 104  | 227234   | 20.575  | ug/l   | 99       |
| 71) Bromoform                  | 10.84 | 173  | 57543    | 19.984  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.00 | 105  | 359205   | 21.159  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 142128   | 20.892  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 129089   | 21.568  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 118652m  | 21.290  | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 87637    | 20.172  | ug/l   | 97       |
| 78) n-propylbenzene            | 11.34 | 91   | 406956   | 20.989  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 249481   | 20.894  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 298986   | 20.868  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.05 | 75   | 39516    | 20.498  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 286315   | 20.474  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.75 | 119  | 294954   | 20.991  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 308145   | 21.351  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 337500   | 21.037  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 302978   | 20.606  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 160119   | 20.081  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 166222   | 20.467  | ug/l   | 100      |
| 89) n-Butylbenzene             | 12.37 | 91   | 262464   | 20.148  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.58 | 117  | 51286    | 20.204  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.37 | 146  | 162056   | 20.849  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 27247    | 21.176  | ug/l   | 96       |

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Operator : JC/MD  
Sample : VX1204WBS01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1204WBS01

Manual Integrations  
APPROVED

MMDadoda  
12/7/2020 10:53:00 AM

Quant Time: Dec 05 04:21:46 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X120420W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 04 15:32:53 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 100006   | 19.765 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.76 | 225  | 42950    | 18.992 | ug/l  | 99       |
| 95) Naphthalene            | 13.82 | 128  | 348819   | 21.265 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 99226    | 20.066 | ug/l  | 98       |

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

