

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122418\  
 Data File : VX006798.D  
 Acq On : 24 Dec 2018 16:38  
 Operator : JC/MD  
 Sample : VX1224MBSD01  
 Misc : 5.00µg/10mL/100µL/5.0mL/MSVOA\_X/MEOH  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1224MBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 12/26/2018 9:57:46 AM

Quant Time: Dec 25 03:49:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121818W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 19 15:20:58 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 668847   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 982761   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 891871   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 466234   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response   | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|------------|--------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 345947     | 47.99  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 95.98% |       |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 300827     | 48.40  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 96.80% |       |          |
| 50) Toluene-d8              | 8.71  | 98   | 1164388    | 49.70  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 99.40% |       |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 421725     | 49.15  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 98.30% |       |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 112085   | 18.318  | ug/l  | 99     |
| 3) Chloromethane              | 1.33 | 50   | 132743   | 20.137  | ug/l  | 95     |
| 4) Vinyl Chloride             | 1.41 | 62   | 150720   | 21.892  | ug/l  | 100    |
| 5) Bromomethane               | 1.64 | 94   | 121188   | 17.621  | ug/l  | 95     |
| 6) Chloroethane               | 1.72 | 64   | 103085   | 21.624  | ug/l  | 98     |
| 7) Trichlorofluoromethane     | 1.93 | 101  | 241507   | 22.499  | ug/l  | 97     |
| 8) Diethyl Ether              | 2.19 | 74   | 93739    | 21.987  | ug/l  | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101  | 131387   | 20.847  | ug/l  | 100    |
| 10) Methyl Iodide             | 2.51 | 142  | 189013   | 20.951  | ug/l  | 98     |
| 11) Tert butyl alcohol        | 3.07 | 59   | 171783   | 106.780 | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 2.38 | 96   | 121335   | 20.304  | ug/l  | 99     |
| 13) Acrolein                  | 2.30 | 56   | 112634   | 103.784 | ug/l  | 100    |
| 14) Allyl chloride            | 2.73 | 41   | 211285   | 21.005  | ug/l  | 97     |
| 15) Acrylonitrile             | 3.15 | 53   | 389067   | 108.924 | ug/l  | 99     |
| 16) Acetone                   | 2.45 | 43   | 347955   | 105.064 | ug/l  | 95     |
| 17) Carbon Disulfide          | 2.57 | 76   | 240667   | 15.218  | ug/l  | 99     |
| 18) Methyl Acetate            | 2.78 | 43   | 233739   | 24.002  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73   | 439605   | 22.164  | ug/l  | 99     |
| 20) Methylene Chloride        | 2.86 | 84   | 140680   | 20.542  | ug/l  | 94     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96   | 124867   | 18.858  | ug/l  | 94     |
| 22) Diisopropyl ether         | 3.87 | 45   | 383487   | 20.839  | ug/l  | 94     |
| 23) Vinyl Acetate             | 3.82 | 43   | 1487892  | 98.847  | ug/l  | 98     |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 205043   | 18.665  | ug/l  | 99     |
| 25) 2-Butanone                | 4.70 | 43   | 456910   | 98.081  | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 4.58 | 77   | 137111   | 16.158  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96   | 138974   | 19.023  | ug/l  | 99     |
| 28) Bromochloromethane        | 5.02 | 49   | 100579   | 20.631  | ug/l  | 96     |
| 29) Tetrahydrofuran           | 5.15 | 42   | 311159   | 101.413 | ug/l  | 97     |
| 30) Chloroform                | 5.21 | 83   | 213637   | 18.780  | ug/l  | 99     |
| 31) Cyclohexane               | 5.58 | 56   | 184700   | 18.507  | ug/l  | 98     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97   | 172598   | 17.968  | ug/l  | 98     |
| 36) 1,1-Dichloropropene       | 5.80 | 75   | 155486   | 19.103  | ug/l  | 100    |
| 37) Ethyl Acetate             | 4.85 | 43   | 177241   | 20.921  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 5.78 | 117  | 144186   | 18.228  | ug/l  | 95     |

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 Acq On : 24 Dec 2018 16:38  
 Operator : JC/MD  
 Sample : VX1224MBSD01  
 Misc : 5.00µg/10mL/100µL/5.0mL/MSVOA\_X/MEOH  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX1224MBSD01

Manual Integrations  
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MMDadoda  
 12/26/2018 9:57:46 AM

Quant Time: Dec 25 03:49:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121818W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 19 15:20:58 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 199554   | 18.622  | ug/l   | 97       |
| 40) Benzene                    | 6.14  | 78   | 488501   | 19.744  | ug/l   | 97       |
| 41) Methacrylonitrile          | 5.06  | 41   | 101497   | 22.566  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 166186   | 19.712  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.46  | 43   | 277426   | 21.522  | ug/l   | 96       |
| 44) Trichloroethene            | 7.21  | 130  | 145095   | 19.376  | ug/l   | 88       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 119842   | 19.905  | ug/l   | 97       |
| 46) Dibromomethane             | 7.66  | 93   | 84667    | 19.118  | ug/l   | 97       |
| 47) Bromodichloromethane       | 7.90  | 83   | 130656   | 17.770  | ug/l   | 97       |
| 48) Methyl methacrylate        | 7.77  | 41   | 143177   | 21.842  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 7.75  | 88   | 57038    | 319.029 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 912036   | 111.202 | ug/l   | 98       |
| 52) Toluene                    | 8.78  | 92   | 412024   | 25.777  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 143992   | 18.260  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 163664   | 18.915  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 132100   | 20.191  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 195423   | 21.134  | ug/l   | 94       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 210391   | 19.987  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 515251   | 104.823 | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 683074   | 108.853 | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.59  | 129  | 107653   | 17.325  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 139233   | 20.019  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 142600   | 20.192  | ug/l   | 93       |
| 65) Chlorobenzene              | 10.14 | 112  | 368700   | 19.541  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 116876   | 19.854  | ug/l   | 100      |
| 67) Ethyl Benzene              | 10.25 | 91   | 644250   | 20.895  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.36 | 106  | 572243   | 47.035  | ug/l   | 100      |
| 69) o-Xylene                   | 10.70 | 106  | 252665   | 21.031  | ug/l   | 96       |
| 70) Styrene                    | 10.71 | 104  | 388523   | 20.441  | ug/l   | 99       |
| 71) Bromoform                  | 10.86 | 173  | 77002    | 17.668  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 636783   | 19.964  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.90 | 43   | 256921   | 22.504  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 198685   | 20.945  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 179486m  | 20.715  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 171812   | 19.924  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 709166   | 20.190  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 417334   | 19.607  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 532411   | 20.266  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 36736    | 16.043  | ug/l # | 73       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 481681   | 19.728  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 529197   | 20.126  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 553423   | 20.027  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 640855   | 19.879  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 574194   | 20.262  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 307558   | 19.790  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 310524   | 19.491  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.38 | 91   | 482581   | 20.010  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 67712    | 17.555  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 311464   | 20.034  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 34635    | 17.646  | ug/l # | 73       |

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Operator : JC/MD  
Sample : VX1224MBSD01  
Misc : 5.00g/10mL/100uL/5.0mL/MSVOA\_X/MEOH  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1224MBSD01

Manual Integrations  
APPROVED

MMDadoda  
12/26/2018 9:57:46 AM

Quant Time: Dec 25 03:49:52 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121818W.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 19 15:20:58 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 222829   | 20.779 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 96731    | 19.137 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 696097   | 20.338 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 223515   | 20.187 | ug/l  | 97       |

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

