

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121020\  
 Data File : VX019836.D  
 Acq On : 10 Dec 2020 19:23  
 Operator : JC/MD  
 Sample : L4996-24MSD  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE135D3-20201208MSD

Manual Integrations  
 APPROVED

MMDadoda  
 12/11/2020 5:36:26 PM

Quant Time: Dec 11 02:41:56 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  | 260040   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 426160   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 395885   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 195081   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |        |
|---------------------------|--------|-------|----------|----------|------|--------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65    | 161686   | 47.31    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 61 - 141 | Recovery | =    | 94.62% |
| 35) Dibromofluoromethane  | 5.46   | 113   | 131619   | 47.79    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 69 - 133 | Recovery | =    | 95.58% |
| 50) Toluene-d8            | 8.70   | 98    | 505453   | 48.07    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 65 - 126 | Recovery | =    | 96.14% |
| 62) 4-Bromofluorobenzene  | 11.12  | 95    | 191739   | 47.91    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 58 - 135 | Recovery | =    | 95.82% |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 119459  | 50.177  | ug/l | 99     |
| 3) Chloromethane              | 1.31 | 50  | 130971  | 46.777  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.39 | 62  | 150995  | 51.145  | ug/l | 99     |
| 5) Bromomethane               | 1.62 | 94  | 44903   | 45.806  | ug/l | 96     |
| 6) Chloroethane               | 1.70 | 64  | 97555   | 55.008  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 1.91 | 101 | 213412  | 51.906  | ug/l | 97     |
| 8) Diethyl Ether              | 2.17 | 74  | 89747   | 51.510  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101 | 149436  | 63.410  | ug/l | 99     |
| 10) Methyl Iodide             | 2.49 | 142 | 162297  | 46.722  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.01 | 59  | 176822  | 251.677 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 128625  | 53.987  | ug/l | 99     |
| 13) Acrolein                  | 2.27 | 56  | 84760   | 224.680 | ug/l | 98     |
| 14) Allyl chloride            | 2.70 | 41  | 206149  | 51.231  | ug/l | 98     |
| 15) Acrylonitrile             | 3.11 | 53  | 416301  | 269.443 | ug/l | 100    |
| 16) Acetone                   | 2.42 | 43  | 326769  | 254.370 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.55 | 76  | 315519  | 46.154  | ug/l | 100    |
| 18) Methyl Acetate            | 2.75 | 43  | 167854  | 53.396  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 463033  | 53.365  | ug/l | 100    |
| 20) Methylene Chloride        | 2.83 | 84  | 154262  | 52.676  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 142257  | 51.214  | ug/l | 99     |
| 22) Diisopropyl ether         | 3.82 | 45  | 440585  | 54.155  | ug/l | 92     |
| 23) Vinyl Acetate             | 3.78 | 43  | 1770389 | 255.421 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 261637  | 53.329  | ug/l | 99     |
| 25) 2-Butanone                | 4.63 | 43  | 535171  | 271.116 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.55 | 77  | 191467  | 45.318  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 180127  | 55.413  | ug/l | 98     |
| 28) Bromochloromethane        | 4.98 | 49  | 113528  | 48.542  | ug/l | 99     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 345643  | 271.776 | ug/l | 99     |
| 30) Chloroform                | 5.17 | 83  | 270317  | 53.586  | ug/l | 100    |
| 31) Cyclohexane               | 5.55 | 56  | 220247  | 51.807  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 230928  | 53.157  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 5.76 | 75  | 192912  | 50.095  | ug/l | 100    |
| 37) Ethyl Acetate             | 4.79 | 43  | 193948  | 49.882  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.75 | 117 | 195252  | 51.777  | ug/l | 98     |

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 Sample : L4996-24MSD  
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 ALS Vial : 27 Sample Multiplier: 1

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 12/11/2020 5:36:26 PM

Quant Time: Dec 11 02:41:56 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   | 227931   | 50.378   | ug/l   | 99       |
| 40) Benzene                    | 6.11  | 78   | 604526   | 51.390   | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.00  | 41   | 113469   | 53.153   | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 210313   | 52.327   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.41  | 43   | 318256   | 50.346   | ug/l   | 99       |
| 44) Trichloroethene            | 7.18  | 130  | 210390   | 68.166   | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 165829   | 56.404   | ug/l   | 97       |
| 46) Dibromomethane             | 7.63  | 93   | 103743   | 52.252   | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.87  | 83   | 207543   | 52.680   | ug/l   | 100      |
| 48) Methyl methacrylate        | 7.74  | 41   | 164189   | 52.812   | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 79809    | 1059.709 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 1043059  | 270.266  | ug/l   | 100      |
| 52) Toluene                    | 8.76  | 92   | 379334   | 51.559   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 222857   | 50.975   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 241052   | 50.752   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 157436   | 53.100   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 239623   | 53.418   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 266378   | 52.617   | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.47  | 43   | 799435   | 267.232  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.56  | 129  | 159158   | 52.836   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 164435   | 52.229   | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.32  | 164  | 194083   | 73.104   | ug/l   | 97       |
| 65) Chlorobenzene              | 10.12 | 112  | 399734   | 50.682   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.20 | 131  | 149778   | 52.761   | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.23 | 91   | 720902   | 51.493   | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.34 | 106  | 544804   | 103.272  | ug/l   | 100      |
| 69) o-Xylene                   | 10.68 | 106  | 263402   | 51.905   | ug/l   | 98       |
| 70) Stvrene                    | 10.70 | 104  | 445608   | 52.024   | ug/l   | 100      |
| 71) Bromoform                  | 10.84 | 173  | 115052   | 51.518   | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.00 | 105  | 703682   | 52.798   | ug/l   | 100      |
| 74) N-amyl acetate             | 10.88 | 43   | 263059   | 49.252   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 253167   | 53.878   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 235959m  | 53.929   | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 175797   | 51.542   | ug/l   | 99       |
| 78) n-propylbenzene            | 11.34 | 91   | 798905   | 52.482   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 486017   | 51.846   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 595575   | 52.948   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.05 | 75   | 77741    | 51.364   | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 565590   | 51.516   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 581846   | 52.742   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 604614   | 53.361   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 660415   | 52.434   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 613762   | 53.170   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 313551   | 50.088   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 311823   | 48.906   | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.37 | 91   | 524756   | 51.311   | ug/l   | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 103777   | 52.074   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.37 | 146  | 316637   | 51.887   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 55574    | 55.016   | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene     | 13.63 | 180  | 206527   | 51.991   | ug/l   | 98       |

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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) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 94) Hexachlorobutadiene    | 13.76 | 225  | 89639    | 50.487 | ug/l  | 97       |
| 95) Naphthalene            | 13.82 | 128  | 699480   | 54.314 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 210644   | 54.259 | ug/l  | 97       |

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

