

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042320\  
 Data File : VX015922.D  
 Acq On : 24 Apr 2020 03:58  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 47 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 4/24/2020 11:35:29 AM

Quant Time: Apr 24 08:41:50 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042220W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 23 04:36:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 805150   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 1251199  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 1178673  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 632555   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 488475   | 53.34 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.68% |      |
| 35) Dibromofluoromethane  | 5.47   | 113 | 376761   | 52.17 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.34% |      |
| 50) Toluene-d8            | 8.70   | 98  | 1455204  | 50.05 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.10% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 604815   | 50.71 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.42% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 390143  | 56.609  | ug/l   | 97     |
| 3) Chloromethane              | 1.31 | 50  | 362568  | 51.367  | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.39 | 62  | 395637  | 48.426  | ug/l   | 99     |
| 5) Bromomethane               | 1.62 | 94  | 143481  | 52.363  | ug/l   | 99     |
| 6) Chloroethane               | 1.71 | 64  | 231823  | 49.794  | ug/l   | 100    |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 533774  | 52.658  | ug/l   | 97     |
| 8) Diethyl Ether              | 2.17 | 74  | 196114  | 47.709  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 340888  | 49.574  | ug/l   | 98     |
| 10) Methyl Iodide             | 2.49 | 142 | 380192  | 44.753  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 3.01 | 59  | 507500  | 271.242 | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 347992  | 49.346  | ug/l   | 97     |
| 13) Acrolein                  | 2.27 | 56  | 265690  | 239.991 | ug/l   | 96     |
| 14) Allyl chloride            | 2.71 | 41  | 722866  | 48.237  | ug/l   | 99     |
| 15) Acrylonitrile             | 3.12 | 53  | 1163660 | 267.944 | ug/l   | 100    |
| 16) Acetone                   | 2.42 | 43  | 969375  | 243.111 | ug/l   | 99     |
| 17) Carbon Disulfide          | 2.55 | 76  | 893589  | 34.892  | ug/l   | 99     |
| 18) Methyl Acetate            | 2.75 | 43  | 667902  | 50.739  | ug/l   | 100    |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 1310733 | 52.648  | ug/l   | 100    |
| 20) Methylene Chloride        | 2.83 | 84  | 401809  | 49.639  | ug/l   | 100    |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 394526  | 50.422  | ug/l   | 93     |
| 22) Diisopropyl ether         | 3.83 | 45  | 1413375 | 52.328  | ug/l   | 93     |
| 23) Vinyl Acetate             | 3.79 | 43  | 5833270 | 260.942 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 739076  | 52.499  | ug/l   | 99     |
| 25) 2-Butanone                | 4.64 | 43  | 1663341 | 263.922 | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 4.56 | 77  | 455693  | 36.236  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 4.57 | 96  | 455968  | 51.330  | ug/l   | 97     |
| 28) Bromochloromethane        | 4.98 | 49  | 341907  | 46.285  | ug/l # | 99     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 1099879 | 263.848 | ug/l   | 99     |
| 30) Chloroform                | 5.18 | 83  | 736336  | 51.985  | ug/l   | 96     |
| 31) Cyclohexane               | 5.55 | 56  | 685655  | 51.248  | ug/l   | 95     |
| 32) 1,1,1-Trichloroethane     | 5.47 | 97  | 662745  | 52.478  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 552675  | 49.826  | ug/l   | 99     |
| 37) Ethyl Acetate             | 4.79 | 43  | 656848  | 49.757  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 579761  | 53.063  | ug/l   | 98     |

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Manual Integrations  
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 4/24/2020 11:35:29 AM

Quant Time: Apr 24 08:41:50 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042220W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 23 04:36:12 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 7.45  | 83   | 669103   | 47.635   | ug/l   | 96       |
| 40) Benzene                    | 6.12  | 78   | 1647916  | 49.327   | ug/l   | 98       |
| 41) Methacrylonitrile          | 5.01  | 41   | 376379   | 51.309   | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.17  | 62   | 604682   | 50.264   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.42  | 43   | 1126470  | 50.587   | ug/l   | 100      |
| 44) Trichloroethene            | 7.19  | 130  | 544746   | 46.399   | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 437486   | 49.970   | ug/l   | 98       |
| 46) Dibromomethane             | 7.64  | 93   | 294159   | 46.027   | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.88  | 83   | 594749   | 52.310   | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.75  | 41   | 555998   | 50.760   | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.72  | 88   | 210391   | 1016.329 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 3301708  | 256.876  | ug/l   | 100      |
| 52) Toluene                    | 8.77  | 92   | 1057008  | 49.361   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 9.03  | 75   | 667698   | 47.331   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 712384   | 47.779   | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 434864   | 52.007   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 709780   | 50.115   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.36  | 76   | 736047   | 50.656   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 1817154  | 256.829  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.48  | 43   | 2503451  | 255.669  | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.57  | 129  | 488062   | 56.521   | ug/l   | 96       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 464361   | 50.248   | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.32  | 164  | 671212   | 42.248   | ug/l   | 93       |
| 65) Chlorobenzene              | 10.12 | 112  | 1168133  | 49.561   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 457163   | 51.890   | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.24 | 91   | 2039324  | 49.271   | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.34 | 106  | 1541982  | 99.253   | ug/l   | 99       |
| 69) o-Xylene                   | 10.68 | 106  | 755302   | 49.404   | ug/l   | 99       |
| 70) Styrene                    | 10.70 | 104  | 1328872  | 50.200   | ug/l   | 100      |
| 71) Bromoform                  | 10.84 | 173  | 408300   | 71.119   | ug/l # | 95       |
| 73) Isopropylbenzene           | 11.00 | 105  | 2086385  | 51.934   | ug/l   | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 1032715  | 49.795   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 498127   | 58.589   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 609941m  | 50.708   | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 560329   | 51.047   | ug/l   | 98       |
| 78) n-propylbenzene            | 11.34 | 91   | 2395991  | 52.063   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 1400916  | 50.677   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 1749274  | 51.066   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 224396   | 44.876   | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 1670914  | 50.866   | ug/l   | 98       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 1576960  | 51.898   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 1811559  | 50.939   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 2017846  | 50.376   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 1875140  | 50.064   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 1007615  | 50.007   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 997175   | 49.438   | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.37 | 91   | 1642752  | 49.056   | ug/l   | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 309330   | 78.178   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 941266   | 49.253   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 149809   | 59.417   | ug/l   | 96       |

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QLast Update : Thu Apr 23 04:36:12 2020  
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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 729342   | 48.437 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 324582   | 48.077 | ug/l  | 98       |
| 95) Naphthalene            | 13.82 | 128  | 2212252  | 51.066 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 697046   | 47.448 | ug/l  | 96       |

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

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