

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042519\  
 Data File : VX009175.D  
 Acq On : 25 Apr 2019 20:13  
 Operator : JC/SP  
 Sample : K2555-04MSD  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 HW-7MSD

Manual Integrations  
 APPROVED

MMdadoda  
 4/26/2019 10:05:41 AM

Quant Time: Apr 26 06:54:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X041519W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 17 06:47:58 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 181332   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 301575   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 275422   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 132939   | 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   | 129689   | 50.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 101.50% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 95882    | 49.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 99.08%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 382304   | 49.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 99.06%  |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 140777   | 51.67 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 103.34% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 104455   | 50.012  | ug/l  | 100    |
| 3) Chloromethane              | 1.32 | 50   | 129642   | 50.560  | ug/l  | 99     |
| 4) Vinyl Chloride             | 1.40 | 62   | 123367   | 49.433  | ug/l  | 98     |
| 5) Bromomethane               | 1.64 | 94   | 75233    | 48.283  | ug/l  | 100    |
| 6) Chloroethane               | 1.71 | 64   | 79534    | 54.196  | ug/l  | 97     |
| 7) Trichlorofluoromethane     | 1.92 | 101  | 142728   | 48.983  | ug/l  | 97     |
| 8) Diethyl Ether              | 2.19 | 74   | 65058    | 48.822  | ug/l  | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101  | 88589    | 47.552  | ug/l  | 98     |
| 10) Methyl Iodide             | 2.51 | 142  | 100809   | 49.535  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 3.06 | 59   | 159446   | 281.087 | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 91730    | 47.172  | ug/l  | 96     |
| 13) Acrolein                  | 2.29 | 56   | 114605   | 233.828 | ug/l  | 99     |
| 14) Allyl chloride            | 2.73 | 41   | 215436   | 50.781  | ug/l  | 99     |
| 15) Acrylonitrile             | 3.14 | 53   | 389823   | 270.720 | ug/l  | 100    |
| 16) Acetone                   | 2.45 | 43   | 339480   | 256.170 | ug/l  | 97     |
| 17) Carbon Disulfide          | 2.57 | 76   | 263944   | 46.286  | ug/l  | 99     |
| 18) Methyl Acetate            | 2.78 | 43   | 153234   | 46.330  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73   | 351700   | 50.759  | ug/l  | 100    |
| 20) Methylene Chloride        | 2.85 | 84   | 109221   | 48.194  | ug/l  | 99     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96   | 97934    | 47.217  | ug/l  | 97     |
| 22) Diisopropyl ether         | 3.86 | 45   | 420845   | 51.049  | ug/l  | # 87   |
| 23) Vinyl Acetate             | 3.82 | 43   | 1633622  | 225.431 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 206993   | 50.019  | ug/l  | 99     |
| 25) 2-Butanone                | 4.68 | 43   | 576464   | 272.139 | ug/l  | 100    |
| 26) 2,2-Dichloropropane       | 4.58 | 77   | 118119   | 38.078  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96   | 113756   | 48.306  | ug/l  | 99     |
| 28) Bromochloromethane        | 5.02 | 49   | 87153    | 50.732  | ug/l  | 100    |
| 29) Tetrahydrofuran           | 5.13 | 42   | 386226   | 272.413 | ug/l  | 99     |
| 30) Chloroform                | 5.21 | 83   | 187585   | 50.656  | ug/l  | 100    |
| 31) Cyclohexane               | 5.58 | 56   | 196969   | 48.393  | ug/l  | 98     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97   | 154100   | 50.209  | ug/l  | 100    |
| 36) 1,1-Dichloropropene       | 5.80 | 75   | 143065   | 45.870  | ug/l  | 99     |
| 37) Ethyl Acetate             | 4.84 | 43   | 187044   | 46.605  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 5.79 | 117  | 128299   | 48.522  | ug/l  | 98     |

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 Sample : K2555-04MSD  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 HW-7MSD

Manual Integrations  
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 4/26/2019 10:05:41 AM

Quant Time: Apr 26 06:54:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X041519W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 17 06:47:58 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 172205   | 45.348   | ug/l   | 99       |
| 40) Benzene                    | 6.14  | 78   | 441984   | 48.036   | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.04  | 41   | 119941   | 52.072   | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 159451   | 48.921   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.45  | 43   | 307012   | 47.470   | ug/l   | 100      |
| 44) Trichloroethene            | 7.21  | 130  | 102139   | 45.306   | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 126407   | 49.521   | ug/l   | 100      |
| 46) Dibromomethane             | 7.66  | 93   | 71683    | 48.253   | ug/l   | 100      |
| 47) Bromodichloromethane       | 7.90  | 83   | 143871   | 49.377   | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.77  | 41   | 168111   | 52.606   | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 60319    | 1008.456 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 1127000  | 273.523  | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 268128   | 48.623   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 162889   | 48.576   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 178627   | 47.573   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 108932   | 49.843   | ug/l   | 97       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 203631   | 51.963   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 192597   | 49.495   | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 893752   | 281.348  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.58  | 129  | 107198   | 51.178   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 111827   | 49.577   | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 88722    | 42.403   | ug/l   | 99       |
| 65) Chlorobenzene              | 10.14 | 112  | 275680   | 47.421   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 99372    | 48.522   | ug/l   | 100      |
| 67) Ethyl Benzene              | 10.25 | 91   | 507240   | 47.731   | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.36 | 106  | 372245   | 96.382   | ug/l   | 99       |
| 69) o-Xylene                   | 10.70 | 106  | 183587   | 48.853   | ug/l   | 99       |
| 70) Styrene                    | 10.71 | 104  | 320426   | 49.204   | ug/l   | 99       |
| 71) Bromoform                  | 10.85 | 173  | 83028    | 50.888   | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 484820   | 48.113   | ug/l   | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 263592   | 45.559   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 186472   | 50.647   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 156892m  | 48.332   | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 120083   | 47.232   | ug/l   | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 560035   | 48.422   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 334548   | 48.002   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 409479   | 48.425   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 58473    | 46.245   | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 383706   | 47.405   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 404015   | 49.765   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 411607   | 47.820   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 466174   | 48.146   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 421357   | 47.333   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 208841   | 46.933   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 209036   | 46.341   | ug/l   | 100      |
| 89) n-Butylbenzene             | 12.38 | 91   | 377718   | 45.561   | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 72112    | 49.109   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 214764   | 48.876   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 44091    | 52.597   | ug/l   | 100      |
| 93) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 148254   | 46.740   | ug/l   | 100      |

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Sample : K2555-04MSD  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
HW-7MSD

Manual Integrations  
APPROVED

MMdadoda  
4/26/2019 10:05:41 AM

Quant Time: Apr 26 06:54:35 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X041519W.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 17 06:47:58 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 94) Hexachlorobutadiene    | 13.78 | 225  | 72649    | 45.923 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 511143   | 50.299 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 150016   | 47.934 | ug/l  | 99       |

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

