

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU120518\  
 Data File : VU028468.D  
 Acq On : 05 Dec 2018 09:55  
 Operator : MD/SY  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 06 02:15:44 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U112818W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 29 01:04:49 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0   | 169   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.672  | 4.7   | 155   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.984  | 12.0  | 150   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.303  | 3.4#  | 160   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 49.630  | 0.7   | 176   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 49.398  | 1.2   | 165   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.244  | -0.5  | 167   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 52.119  | -4.2  | 181   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 54.686  | -9.4  | 181   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.555  | 0.9   | 161   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 243.265 | 2.7   | 169   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 54.445  | -8.9# | 181   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 227.864 | 8.9   | 157   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 41.966  | 16.1  | 143   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 229.743 | 8.1   | 149   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 237.919 | 4.8   | 164   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.493  | 9.0   | 155   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 45.300  | 9.4   | 153   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.603  | 0.8   | 164   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 49.253  | 1.5   | 166   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.805  | -1.6  | 167   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 44.978  | 10.0  | 146   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 224.330 | 10.3  | 144   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.122  | 3.8   | 155   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 225.967 | 9.6   | 149   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.879  | 0.2   | 164   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.536  | -1.1  | 170   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 45.272  | 9.5   | 146   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 219.025 | 12.4  | 142   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.116  | 3.8#  | 162   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 44.546  | 10.9  | 149   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.815  | 0.4   | 164   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.084  | 7.8   | 150   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 153   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.768  | -7.5  | 167   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.230  | -2.5  | 162   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.572  | 4.9   | 142   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 53.400  | -6.8  | 166   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 54.557  | -9.1  | 163   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.357  | -6.7  | 159   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 47.866  | 4.3   | 139   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.073  | -0.1  | 151   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.182  | 1.6   | 146   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 58.138  | -16.3 | 175   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.404  | -2.8# | 154   | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
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 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 06 02:15:44 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U112818W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 29 01:04:49 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|--------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 53.895   | -7.8   | 162   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.012   | -4.0   | 159   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 47.513   | 5.0    | 145   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1187.184 | -18.7  | 184   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.893   | -5.8   | 160   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 236.375  | 5.5    | 141   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 55.984   | -12.0# | 165   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.828   | -5.7   | 161   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.291   | -4.6   | 160   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.186   | -6.4   | 163   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.225   | -8.5   | 158   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.586   | -5.2   | 160   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 253.295  | -1.3   | 147   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 244.070  | 2.4    | 145   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.695   | -11.4  | 170   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 55.984   | -12.0  | 165   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 54.511   | -9.0   | 162   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 156   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 56.015   | -12.0  | 175   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 56.585   | -13.2  | 173   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 55.693   | -11.4  | 171   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 55.093   | -10.2# | 166   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 112.913  | -12.9  | 168   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 55.400   | -10.8  | 168   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 57.309   | -14.6  | 170   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 57.108   | -14.2  | 173   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 160   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.858   | -7.7   | 168   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 45.589   | 8.8    | 144   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.687   | 0.6    | 159   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.770   | 0.5    | 157   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 55.093   | -10.2  | 175   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.640   | -7.3   | 166   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.701   | -5.4   | 164   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.454   | -6.9   | 168   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.041   | 3.9    | 157   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 52.927   | -5.9   | 167   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 55.741   | -11.5  | 171   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.937   | -7.9   | 166   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.091   | -8.2   | 170   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 56.440   | -12.9  | 175   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 54.907   | -9.8   | 176   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 54.888   | -9.8   | 173   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 55.377   | -10.8  | 168   | 0.00     |

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U112818W.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 29 01:04:49 2018  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 54.080 | -8.2  | 169   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 55.729 | -11.5 | 176   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.049 | 3.9   | 154   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 58.590 | -17.2 | 183   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 56.105 | -12.2 | 176   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 52.345 | -4.7  | 176   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 58.237 | -16.5 | 178   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6