

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061918\  
 Data File : VN049383.D  
 Acq On : 19 Jun 2018 13:44  
 Operator : MD\SY  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 20 04:38:58 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061618W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 01:02:01 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    | 105   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.504  | 5.0    | 111   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.283  | 11.4   | 106   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.802  | 8.4#   | 108   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 44.949  | 10.1   | 106   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.438  | 5.1    | 108   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.979  | 6.0    | 109   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.728  | 4.5    | 108   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 46.393  | 7.2    | 106   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.461  | 5.1    | 99    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 253.799 | -1.5   | 119   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.276  | 7.4#   | 107   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 361.035 | -44.4# | 147   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.256  | 3.5    | 107   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 247.980 | 0.8    | 109   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 251.395 | -0.6   | 118   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.681  | 10.6   | 106   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 47.597  | 4.8    | 112   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.347  | -0.7   | 109   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 45.011  | 10.0   | 105   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.822  | 6.4    | 106   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.248  | 1.5    | 107   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 259.497 | -3.8   | 110   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 45.918  | 8.2    | 105   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 258.881 | -3.6   | 116   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.858  | 4.3    | 108   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.443  | 5.1    | 106   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 45.652  | 8.7    | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 255.092 | -2.0   | 112   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 46.437  | 7.1#   | 106   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.263  | 1.5    | 107   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.133  | 5.7    | 107   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 45.128  | 9.7    | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 105   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 45.711  | 8.6    | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.069  | -0.1   | 108   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 54.154  | -8.3   | 112   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.041  | 3.9    | 106   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.819  | -1.6   | 109   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.093  | 3.8    | 106   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.529  | -5.1   | 107   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.156  | 3.7    | 107   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.811  | -5.6   | 116   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.444  | 3.1    | 106   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 47.577  | 4.8#   | 104   | 0.00     |

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 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 01:02:01 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   | 48.871   | 2.3   | 107   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 47.836   | 4.3   | 105   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 54.342   | -8.7  | 111   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1073.104 | -7.3  | 114   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 45.578   | 8.8   | 95    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 268.027  | -7.2  | 114   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.887   | -1.8# | 106   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.043   | -2.1  | 108   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.366   | -0.7  | 107   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.124   | 3.8   | 107   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.830   | -9.7  | 113   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.033   | 1.9   | 106   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 213.890  | 14.4  | 98    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 275.717  | -10.3 | 117   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 49.399   | 1.2   | 106   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.381   | -0.8  | 110   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.030   | 3.9   | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 105   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.070   | -0.1  | 112   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 47.901   | 4.2   | 106   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 46.672   | 6.7   | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.890   | -1.8# | 107   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 104.072  | -4.1  | 107   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.663   | -3.3  | 106   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.792   | -7.6  | 107   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 49.935   | 0.1   | 108   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 105   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.149   | 5.7   | 107   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.798   | -1.6  | 115   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.653   | -1.3  | 108   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.521   | 3.0   | 110   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 44.598   | 10.8  | 107   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.137   | 1.7   | 106   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 46.296   | 7.4   | 107   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.908   | 2.2   | 106   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.545   | 2.9   | 112   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.310   | 3.4   | 108   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 46.679   | 6.6   | 106   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.968   | 0.1   | 107   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 47.344   | 5.3   | 106   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.125   | 1.8   | 106   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.855   | 4.3   | 109   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 46.915   | 6.2   | 108   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.569   | -1.1  | 107   | 0.00     |

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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 | 48.504 | 3.0  | 103   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 47.130 | 5.7  | 107   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 45.445 | 9.1  | 108   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 44.835 | 10.3 | 109   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 50.013 | -0.0 | 105   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 49.557 | 0.9  | 112   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 45.815 | 8.4  | 108   | 0.00     |

(#) = Out of Range

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