

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061618\  
 Data File : VN049284.D  
 Acq On : 16 Jun 2018 2:34  
 Operator : MD\SY  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 16 05:18:26 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   | 98    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 44.627  | 10.7  | 96    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.661  | 12.7  | 97    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.368  | 9.3#  | 99    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 43.637  | 12.7  | 96    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.154  | 3.7   | 102   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.271  | 5.5   | 102   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 46.798  | 6.4   | 98    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 46.488  | 7.0   | 99    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 54.649  | -9.3  | 106   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 206.570 | 17.4  | 89    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.393  | 7.2#  | 99    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 225.909 | 9.6   | 85    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.341  | 5.3   | 97    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 235.690 | 5.7   | 96    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 198.650 | 20.5# | 86    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.240  | 11.5  | 97    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 45.968  | 8.1   | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.559  | 2.9   | 97    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 46.058  | 7.9   | 100   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.224  | 5.6   | 99    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.357  | -0.7  | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 249.173 | 0.3   | 97    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.871  | 4.3   | 101   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 218.731 | 12.5  | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 41.259  | 17.5  | 86    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.066  | 1.9   | 101   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 49.658  | 0.7   | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 231.765 | 7.3   | 94    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.399  | 3.2#  | 102   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.050  | 1.9   | 99    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.900  | 2.2   | 102   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.285  | -0.6  | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.312  | -2.6  | 101   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.544  | -1.1  | 101   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.059  | 1.9   | 95    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.115  | 1.8   | 101   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 48.161  | 3.7   | 97    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.952  | 2.1   | 100   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 45.968  | 8.1   | 87    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.203  | 1.6   | 102   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.540  | 0.9   | 102   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.904  | 2.2   | 99    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.052  | -0.1# | 102   | 0.00     |

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 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   | 48.858  | 2.3   | 100   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.770  | 0.5   | 102   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 49.980  | 0.0   | 96    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 924.299 | 7.6   | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.085  | -2.2  | 99    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 243.821 | 2.5   | 97    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.676  | -3.4# | 101   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 48.613  | 2.8   | 96    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.119  | 1.8   | 97    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.329  | 3.3   | 100   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.048  | -0.1  | 96    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.680  | 0.6   | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 223.022 | 10.8  | 95    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 237.184 | 5.1   | 94    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 49.739  | 0.5   | 100   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.832  | 2.3   | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.678  | -3.4  | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.984  | 2.0   | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.879  | 2.2   | 101   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.154  | 1.7   | 102   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.277  | -2.6# | 100   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.528 | -5.5  | 101   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.762  | -5.5  | 100   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.419  | -8.8  | 100   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 49.401  | 1.2   | 99    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.014  | 4.0   | 101   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 45.678  | 8.6   | 96    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.767  | -1.5  | 100   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 43.209  | 13.6  | 91    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 44.361  | 11.3  | 99    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.401  | 1.2   | 99    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.184  | 5.6   | 101   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.940  | 0.1   | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 42.347  | 15.3  | 91    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.251  | 3.5   | 99    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.651  | 4.7   | 100   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.485  | -1.0  | 100   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 47.982  | 4.0   | 100   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.259  | 1.5   | 99    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.545  | 4.9   | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 46.146  | 7.7   | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 48.763  | 2.5   | 96    | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 51.307 | -2.6 | 101   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 47.307 | 5.4  | 99    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 41.620 | 16.8 | 92    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 40.874 | 18.3 | 91    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 48.281 | 3.4  | 94    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 43.629 | 12.7 | 89    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 42.623 | 14.8 | 92    | 0.00     |

(#) = Out of Range

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