

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061918\  
 Data File : VN049409.D  
 Acq On : 20 Jun 2018 1:56  
 Operator : MD\SY  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 20 06:43:58 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    | 97    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.659  | 6.7    | 101   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.178  | 11.6   | 98    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.244  | 7.5#   | 101   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 41.992  | 16.0   | 92    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.804  | 4.4    | 101   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.820  | 4.4    | 103   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.863  | 4.3    | 100   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 45.467  | 9.1    | 96    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 54.066  | -8.1   | 105   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 227.315 | 9.1    | 98    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.562  | 6.9#   | 99    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 327.067 | -30.8# | 123   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.153  | 7.7    | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 246.316 | 1.5    | 101   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 203.240 | 18.7   | 88    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.755  | 10.5   | 98    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 48.841  | 2.3    | 106   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.744  | 0.5    | 100   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 46.218  | 7.6    | 100   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.028  | 5.9    | 99    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.680  | 0.6    | 100   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 253.926 | -1.6   | 99    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.979  | 6.0    | 99    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 234.617 | 6.2    | 97    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 35.228  | 29.5#  | 74    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.847  | 4.3    | 99    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 46.965  | 6.1    | 92    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 249.754 | 0.1    | 102   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 47.691  | 4.6#   | 100   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.178  | 3.6    | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.983  | 4.0    | 101   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.338  | 7.3    | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 100   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 45.703  | 8.6    | 92    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.082  | 3.8    | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 52.145  | -4.3   | 102   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.609  | 4.8    | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 45.803  | 8.4    | 93    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 47.787  | 4.4    | 100   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 40.091  | 19.8   | 77    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.893  | 4.2    | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.772  | -1.5   | 106   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.039  | 3.9    | 99    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 47.633  | 4.7#   | 99    | 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   | 48.757  | 2.5  | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 48.118  | 3.8  | 100   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.071  | -4.1 | 101   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 964.491 | 3.6  | 98    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 44.949  | 10.1 | 89    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 255.304 | -2.1 | 103   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.900  | 0.2# | 99    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 47.246  | 5.5  | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 46.843  | 6.3  | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.053  | 3.9  | 101   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.599  | -3.2 | 101   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 48.694  | 2.6  | 100   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 207.486 | 17.0 | 90    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 252.390 | -1.0 | 102   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 48.901  | 2.2  | 100   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.792  | 0.4  | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 45.670  | 8.7  | 89    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0  | 98    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.367  | -2.7 | 108   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 47.602  | 4.8  | 99    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 47.165  | 5.7  | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.826  | 0.3# | 98    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 102.086 | -2.1 | 99    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.875  | -1.8 | 98    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.954  | -5.9 | 99    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 49.544  | 0.9  | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0  | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.204  | 5.6  | 98    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.947  | 2.1  | 102   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.147  | -0.3 | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 47.999  | 4.0  | 100   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 44.790  | 10.4 | 99    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 48.297  | 3.4  | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 46.110  | 7.8  | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.990  | 2.0  | 97    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 42.935  | 14.1 | 91    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.789  | 4.4  | 98    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 46.180  | 7.6  | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.818  | 0.4  | 98    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 46.549  | 6.9  | 96    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 48.085  | 3.8  | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.634  | 6.7  | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 45.606  | 8.8  | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 46.941  | 6.1  | 91    | 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 | 48.605 | 2.8  | 95    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 46.322 | 7.4  | 96    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 44.962 | 10.1 | 98    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 40.705 | 18.6 | 90    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 47.026 | 5.9  | 91    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 44.242 | 11.5 | 90    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 42.027 | 15.9 | 90    | 0.00     |

(#) = Out of Range

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