

Data Path : W:\HPCHEM1\MSVOA X\Data\VX050718\  
 Data File : VX001478.D  
 Acq On : 07 May 2018 20:40  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 08 07:15:21 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050518W.M  
 Quant Title : SW846 8260  
 QLast Update : Sun May 06 07:59:25 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   | 89    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 53.500  | -7.0  | 94    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 51.802  | -3.6  | 97    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.761  | -3.5# | 96    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 56.622  | -13.2 | 101   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.891  | -3.8  | 97    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 52.129  | -4.3  | 95    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.037  | -6.1  | 99    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.982  | -2.0  | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 54.562  | -9.1  | 95    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 270.415 | -8.2  | 100   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 52.832  | -5.7# | 98    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 278.829 | -11.5 | 102   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 52.687  | -5.4  | 97    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 265.175 | -6.1  | 98    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 255.510 | -2.2  | 98    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 51.851  | -3.7  | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 54.952  | -9.9  | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.995  | -6.0  | 98    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 50.470  | -0.9  | 97    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.387  | -0.8  | 96    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.038  | -6.1  | 99    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 269.668 | -7.9  | 98    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.606  | -1.2  | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 265.478 | -6.2  | 99    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.647  | 4.7   | 86    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.374  | -4.7  | 99    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 51.633  | -3.3  | 94    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 267.615 | -7.0  | 99    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 53.450  | -6.9# | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 52.688  | -5.4  | 96    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 55.162  | -10.3 | 99    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.305  | -0.6  | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.092  | -2.2  | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.248  | -2.5  | 96    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 52.105  | -4.2  | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 53.947  | -7.9  | 97    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.196  | -2.4  | 94    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.760  | -5.5  | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 51.934  | -3.9  | 99    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.696  | -5.4  | 98    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.925  | -7.8  | 97    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.667  | -3.3  | 97    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.632  | -7.3# | 101   | 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   | 52.918   | -5.8  | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 55.176   | -10.4 | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 54.195   | -8.4  | 98    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1095.163 | -9.5  | 99    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.593   | -1.2  | 92    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 274.143  | -9.7  | 99    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.853   | -7.7# | 98    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 56.489   | -13.0 | 97    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.702   | -1.4  | 97    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.470   | -6.9  | 100   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 55.739   | -11.5 | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.921   | -5.8  | 97    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 277.465  | -11.0 | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 271.134  | -8.5  | 97    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 56.437   | -12.9 | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.913   | -7.8  | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.413   | -0.8  | 91    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 90    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.959   | -5.9  | 95    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.574   | -5.1  | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 55.841   | -11.7 | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.137   | -6.3# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 108.147  | -8.1  | 96    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 54.041   | -8.1  | 95    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.520   | -11.0 | 96    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 48.170   | 3.7   | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 88    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.578   | -7.2  | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.477   | -7.0  | 97    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 54.105   | -8.2  | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 53.369   | -6.7  | 98    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.469   | -4.9  | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 54.791   | -9.6  | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.848   | -5.7  | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.233   | -8.5  | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 47.477   | 5.0   | 93    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 54.010   | -8.0  | 95    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.527   | -9.1  | 96    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.662   | -9.3  | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.706   | -9.4  | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.917   | -9.8  | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.433   | -4.9  | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.468   | -4.9  | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.970   | -7.9  | 93    | 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 | 55.861 | -11.7 | 96    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 53.007 | -6.0  | 96    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 58.329 | -16.7 | 99    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 53.980 | -8.0  | 94    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 51.789 | -3.6  | 94    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 56.906 | -13.8 | 97    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 54.551 | -9.1  | 96    | 0.00     |

(#) = Out of Range

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