

Data Path : W:\HPCHEM1\MSVOA X\Data\VX032718\  
 Data File : VX000457.D  
 Acq On : 27 Mar 2018 13:24  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 28 07:18:55 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X032018W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 21 04:52:42 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 114   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.551 | 0.614 | -11.4  | 132   | 0.00     |
| 3 P   | Chloromethane               | 0.581 | 0.537 | 7.6    | 112   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.613 | 0.657 | -7.2#  | 125   | 0.00     |
| 5 T   | Bromomethane                | 0.771 | 0.819 | -6.2   | 115   | 0.00     |
| 6 T   | Chloroethane                | 0.461 | 0.419 | 9.1    | 117   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.107 | 1.123 | -1.4   | 119   | 0.00     |
| 8 T   | Diethyl Ether               | 0.396 | 0.387 | 2.3    | 116   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.617 | 0.621 | -0.6   | 121   | 0.00     |
| 10 T  | Methyl Iodide               | 0.548 | 0.462 | 15.7   | 85    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.225 | 0.241 | -7.1   | 121   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.542 | 0.546 | -0.7#  | 114   | 0.00     |
| 13 T  | Acrolein                    | 0.074 | 0.070 | 5.4    | 114   | 0.00     |
| 14 T  | Allyl chloride              | 1.040 | 1.005 | 3.4    | 115   | 0.00     |
| 15 T  | Acrylonitrile               | 0.455 | 0.461 | -1.3   | 119   | 0.00     |
| 16 T  | Acetone                     | 0.543 | 0.604 | -11.2  | 129   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.583 | 1.544 | 2.5    | 120   | 0.00     |
| 18 T  | Methyl Acetate              | 1.138 | 1.162 | -2.1   | 118   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.004 | 1.956 | 2.4    | 112   | 0.00     |
| 20 T  | Methylene Chloride          | 0.627 | 0.608 | 3.0    | 116   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.605 | 0.596 | 1.5    | 117   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.694 | 1.945 | -14.8  | 143   | -0.01    |
| 23 T  | Vinyl Acetate               | 1.606 | 1.891 | -17.7  | 130   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.065 | 1.094 | -2.7   | 116   | 0.00     |
| 25 T  | 2-Butanone                  | 0.610 | 0.645 | -5.7   | 120   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.747 | 0.759 | -1.6   | 111   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.565 | 0.553 | 2.1    | 113   | 0.00     |
| 28 T  | Bromochloromethane          | 0.439 | 0.571 | -30.1# | 135   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.375 | 0.401 | -6.9   | 118   | 0.00     |
| 30 C  | Chloroform                  | 0.998 | 1.052 | -5.4#  | 114   | 0.00     |
| 31 T  | Cyclohexane                 | 0.823 | 0.857 | -4.1   | 119   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.901 | 0.916 | -1.7   | 113   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.653 | 0.615 | 5.8    | 101   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 110   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.315 | 0.306 | 2.9    | 102   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.468 | 0.488 | -4.3   | 119   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.640 | 0.664 | -3.8   | 116   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.491 | 0.512 | -4.3   | 115   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.570 | 0.658 | -15.4  | 131   | 0.00     |
| 40 TM | Benzene                     | 1.360 | 1.459 | -7.3   | 119   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.337 | 0.339 | -0.6   | 117   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.534 | 0.559 | -4.7   | 116   | -0.01    |
| 43 T  | Isopropyl Acetate           | 0.952 | 1.042 | -9.5   | 119   | 0.00     |
| 44 TM | Trichloroethene             | 0.390 | 0.409 | -4.9   | 122   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.348 | 0.378 | -8.6#  | 119   | 0.00     |

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 Quant Title : SW846 8260  
 QLast Update : Wed Mar 21 04:52:42 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.273 | 0.285 | -4.4  | 118   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.481 | 0.558 | -16.0 | 123   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.462 | 0.512 | -10.8 | 120   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.010 | 0.011 | -10.0 | 124   | 0.00     |
| 50 S  | Toluene-d8                  | 1.305 | 1.251 | 4.1   | 107   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.737 | 0.827 | -12.2 | 124   | 0.00     |
| 52 CM | Toluene                     | 0.951 | 1.032 | -8.5# | 124   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.557 | 0.632 | -13.5 | 122   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.540 | 0.628 | -16.3 | 124   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.391 | 0.423 | -8.2  | 121   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.593 | 0.655 | -10.5 | 122   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.625 | 0.699 | -11.8 | 126   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.284 | 0.303 | -6.7  | 113   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.626 | 0.720 | -15.0 | 127   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.400 | 0.457 | -14.2 | 120   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.419 | 0.458 | -9.3  | 120   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.509 | 0.501 | 1.6   | 109   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 116   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.388 | 0.409 | -5.4  | 128   | 0.00     |
| 65 PM | Chlorobenzene               | 1.113 | 1.153 | -3.6  | 122   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.378 | 0.402 | -6.3  | 118   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.886 | 1.994 | -5.7# | 121   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.742 | 0.801 | -8.0  | 124   | 0.00     |
| 69 T  | o-Xylene                    | 0.719 | 0.770 | -7.1  | 122   | 0.00     |
| 70 T  | Styrene                     | 1.189 | 1.318 | -10.8 | 122   | 0.00     |
| 71 P  | Bromoform                   | 0.336 | 0.353 | -5.1  | 118   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 125   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.313 | 3.256 | 1.7   | 122   | 0.00     |
| 74 T  | N-amyl acetate              | 1.653 | 1.544 | 6.6   | 119   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.172 | 1.168 | 0.3   | 123   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.075 | 1.052 | 2.1   | 122   | 0.00     |
| 77 T  | Bromobenzene                | 0.883 | 0.809 | 8.4   | 121   | 0.00     |
| 78 T  | n-propylbenzene             | 3.950 | 3.978 | -0.7  | 127   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.282 | 2.204 | 3.4   | 124   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.786 | 2.947 | -5.8  | 128   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.332 | 0.353 | -6.3  | 124   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.725 | 2.840 | -4.2  | 130   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.809 | 2.819 | -0.4  | 125   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.920 | 3.068 | -5.1  | 128   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.476 | 3.635 | -4.6  | 128   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.087 | 3.348 | -8.5  | 130   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.669 | 1.652 | 1.0   | 126   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.752 | 1.804 | -3.0  | 133   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.874 | 3.170 | -10.3 | 136   | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.486 | 0.516 | -6.2 | 125   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.636 | 1.699 | -3.9 | 129   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.327 | 0.319 | 2.4  | 120   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.173 | 1.193 | -1.7 | 132   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.486 | 0.521 | -7.2 | 136   | 0.00     |
| 95 T | Naphthalene                 | 4.085 | 4.085 | 0.0  | 122   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.159 | 1.136 | 2.0  | 123   | 0.00     |

(#) = Out of Range

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