

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU070218\  
 Data File : VU025160.D  
 Acq On : 02 Jul 2018 22:32  
 Operator : MD/SY  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 03 06:42:48 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U061318W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 13 13:55:26 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    | 84    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.626 | 0.523 | 16.5   | 72    | 0.00     |
| 3 P   | Chloromethane               | 0.639 | 0.586 | 8.3    | 83    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.659 | 0.613 | 7.0#   | 80    | 0.00     |
| 5 T   | Bromomethane                | 0.319 | 0.347 | -8.8   | 90    | -0.01    |
| 6 T   | Chloroethane                | 0.431 | 0.414 | 3.9    | 92    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.006 | 1.005 | 0.1    | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 0.390 | 0.391 | -0.3   | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.624 | 0.606 | 2.9    | 84    | 0.00     |
| 10 T  | Methyl Iodide               | 0.451 | 0.703 | -55.9# | 114   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.199 | 0.235 | -18.1  | 106   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.569 | 0.559 | 1.8#   | 83    | 0.00     |
| 13 T  | Acrolein                    | 0.104 | 0.029 | 72.1#  | 24#   | 0.00     |
| 14 T  | Allyl chloride              | 1.057 | 0.977 | 7.6    | 81    | 0.00     |
| 15 T  | Acrylonitrile               | 0.386 | 0.437 | -13.2  | 93    | 0.00     |
| 16 T  | Acetone                     | 0.439 | 0.425 | 3.2    | 86    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.823 | 1.558 | 14.5   | 74    | 0.00     |
| 18 T  | Methyl Acetate              | 0.940 | 1.372 | -46.0# | 125   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.140 | 2.314 | -8.1   | 92    | 0.00     |
| 20 T  | Methylene Chloride          | 0.688 | 0.695 | -1.0   | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.627 | 0.629 | -0.3   | 87    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.096 | 2.213 | -5.6   | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.877 | 1.896 | -1.0   | 85    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.205 | 1.272 | -5.6   | 89    | 0.00     |
| 25 T  | 2-Butanone                  | 0.589 | 0.653 | -10.9  | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.145 | 0.880 | 23.1#  | 66    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.721 | 0.758 | -5.1   | 90    | 0.00     |
| 28 T  | Bromochloromethane          | 0.531 | 0.501 | 5.6    | 75    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.365 | 0.413 | -13.2  | 97    | 0.00     |
| 30 C  | Chloroform                  | 1.220 | 1.339 | -9.8#  | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 1.323 | 1.098 | 17.0   | 83    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.128 | 1.219 | -8.1   | 94    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.816 | 0.761 | 6.7    | 78    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 80    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.415 | 0.421 | -1.4   | 81    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.588 | 0.614 | -4.4   | 87    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.640 | 0.757 | -18.3  | 89    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.646 | 0.717 | -11.0  | 90    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.733 | 0.743 | -1.4   | 84    | 0.00     |
| 40 TM | Benzene                     | 1.674 | 1.829 | -9.3   | 88    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.345 | 0.428 | -24.1# | 94    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.638 | 0.762 | -19.4  | 97    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.107 | 1.234 | -11.5  | 92    | 0.00     |
| 44 TM | Trichloroethene             | 0.476 | 0.501 | -5.3   | 88    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.447 | 0.495 | -10.7# | 90    | 0.00     |

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 Quant Title : SW846 8260  
 QLast Update : Wed Jun 13 13:55:26 2018  
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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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 46 T  | Dibromomethane              | 0.314 | 0.360 | -14.6  | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.625 | 0.693 | -10.9  | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.539 | 0.640 | -18.7  | 96    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.011 | 0.016 | -45.5# | 130   | 0.00     |
| 50 S  | Toluene-d8                  | 1.514 | 1.313 | 13.3   | 69    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.695 | 0.822 | -18.3  | 96    | 0.00     |
| 52 CM | Toluene                     | 1.077 | 1.184 | -9.9#  | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.702 | 0.723 | -3.0   | 82    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.748 | 0.767 | -2.5   | 83    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.438 | 0.499 | -13.9  | 96    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.733 | 0.800 | -9.1   | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.739 | 0.844 | -14.2  | 94    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.281 | 0.288 | -2.5   | 81    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.568 | 0.667 | -17.4  | 97    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.546 | 0.567 | -3.8   | 87    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.487 | 0.549 | -12.7  | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.601 | 0.579 | 3.7    | 77    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 81    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.475 | 0.502 | -5.7   | 86    | 0.00     |
| 65 PM | Chlorobenzene               | 1.277 | 1.416 | -10.9  | 91    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.485 | 0.542 | -11.8  | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.239 | 2.478 | -10.7# | 91    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.860 | 0.960 | -11.6  | 92    | 0.00     |
| 69 T  | o-Xylene                    | 0.851 | 0.953 | -12.0  | 94    | 0.00     |
| 70 T  | Styrene                     | 1.398 | 1.537 | -9.9   | 90    | 0.00     |
| 71 P  | Bromoform                   | 0.461 | 0.477 | -3.5   | 87    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 83    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.839 | 4.224 | -10.0  | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 1.826 | 1.909 | -4.5   | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.286 | 1.488 | -15.7  | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.101 | 1.260 | -14.4  | 97    | 0.00     |
| 77 T  | Bromobenzene                | 0.972 | 1.088 | -11.9  | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 4.522 | 4.790 | -5.9   | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.667 | 2.906 | -9.0   | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.327 | 3.682 | -10.7  | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.476 | 0.463 | 2.7    | 83    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.104 | 3.360 | -8.2   | 92    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.201 | 3.636 | -13.6  | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.391 | 3.724 | -9.8   | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.006 | 4.345 | -8.5   | 92    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.588 | 3.858 | -7.5   | 92    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.795 | 1.967 | -9.6   | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.807 | 1.955 | -8.2   | 92    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.186 | 3.055 | 4.1    | 79    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 90 T | Hexachloroethane            | 0.700 | 0.685 | 2.1    | 86    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.798 | 2.042 | -13.6  | 97    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.355 | 0.409 | -15.2  | 94    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.111 | 1.279 | -15.1  | 87    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.625 | 0.671 | -7.4   | 90    | 0.00     |
| 95 T | Naphthalene                 | 3.293 | 4.323 | -31.3# | 95    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.107 | 1.349 | -21.9# | 91    | 0.00     |

(#) = Out of Range

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