

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU011419\  
 Data File : VU029152.D  
 Acq On : 14 Jan 2019 09:34  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 14 22:52:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U010319W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jan 12 01:33:59 2019  
 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   | 98    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.496 | 0.454 | 8.5   | 90    | 0.00     |
| 3 P   | Chloromethane               | 0.887 | 0.629 | 29.1# | 78    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.731 | 0.663 | 9.3#  | 90    | 0.00     |
| 5 T   | Bromomethane                | 0.437 | 0.345 | 21.1# | 83    | 0.00     |
| 6 T   | Chloroethane                | 0.435 | 0.395 | 9.2   | 91    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.796 | 0.743 | 6.7   | 93    | 0.00     |
| 8 T   | Diethyl Ether               | 0.383 | 0.355 | 7.3   | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.533 | 0.500 | 6.2   | 103   | 0.00     |
| 10 T  | Methyl Iodide               | 0.501 | 0.411 | 18.0  | 82    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.157 | 0.140 | 10.8  | 91    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.519 | 0.481 | 7.3#  | 99    | 0.00     |
| 13 T  | Acrolein                    | 0.118 | 0.117 | 0.8   | 100   | 0.00     |
| 14 T  | Allyl chloride              | 0.951 | 0.826 | 13.1  | 82    | 0.00     |
| 15 T  | Acrylonitrile               | 0.385 | 0.368 | 4.4   | 92    | 0.00     |
| 16 T  | Acetone                     | 0.389 | 0.380 | 2.3   | 100   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.930 | 1.501 | 22.2# | 86    | 0.00     |
| 18 T  | Methyl Acetate              | 0.905 | 0.908 | -0.3  | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.823 | 1.734 | 4.9   | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 0.661 | 0.599 | 9.4   | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.602 | 0.550 | 8.6   | 91    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.880 | 1.842 | 2.0   | 95    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.537 | 1.498 | 2.5   | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.086 | 1.044 | 3.9   | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 0.526 | 0.527 | -0.2  | 95    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.877 | 0.872 | 0.6   | 97    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.659 | 0.637 | 3.3   | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 0.465 | 0.450 | 3.2   | 92    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.319 | 0.308 | 3.4   | 92    | 0.00     |
| 30 C  | Chloroform                  | 1.034 | 1.015 | 1.8#  | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 1.201 | 0.964 | 19.7  | 92    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.854 | 0.834 | 2.3   | 96    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.618 | 0.592 | 4.2   | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.324 | 0.328 | -1.2  | 94    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.500 | 0.489 | 2.2   | 94    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.549 | 0.545 | 0.7   | 91    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.417 | 0.442 | -6.0  | 97    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.614 | 0.625 | -1.8  | 96    | 0.00     |
| 40 TM | Benzene                     | 1.559 | 1.550 | 0.6   | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.294 | 0.303 | -3.1  | 93    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.468 | 0.482 | -3.0  | 93    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.842 | 0.869 | -3.2  | 93    | 0.00     |
| 44 TM | Trichloroethene             | 0.386 | 0.391 | -1.3  | 97    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.412 | 0.419 | -1.7# | 93    | 0.00     |

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

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.263 | 0.269 | -2.3  | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.485 | 0.511 | -5.4  | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.410 | 0.434 | -5.9  | 92    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.010 | 0.010 | 0.0   | 91    | 0.00     |
| 50 S  | Toluene-d8                  | 1.280 | 1.279 | 0.1   | 93    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.573 | 0.582 | -1.6  | 92    | 0.00     |
| 52 CM | Toluene                     | 0.949 | 0.965 | -1.7# | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.582 | 0.594 | -2.1  | 96    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.629 | 0.653 | -3.8  | 96    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.380 | 0.391 | -2.9  | 96    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.586 | 0.599 | -2.2  | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.651 | 0.670 | -2.9  | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.258 | 0.246 | 4.7   | 85    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.450 | 0.461 | -2.4  | 93    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.377 | 0.402 | -6.6  | 99    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.412 | 0.420 | -1.9  | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.460 | 0.462 | -0.4  | 95    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.360 | 0.367 | -1.9  | 94    | 0.00     |
| 65 PM | Chlorobenzene               | 1.121 | 1.118 | 0.3   | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.364 | 0.389 | -6.9  | 100   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.871 | 1.929 | -3.1# | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.727 | 0.747 | -2.8  | 95    | 0.00     |
| 69 T  | o-Xylene                    | 0.701 | 0.728 | -3.9  | 95    | 0.00     |
| 70 T  | Styrene                     | 1.148 | 1.204 | -4.9  | 95    | 0.00     |
| 71 P  | Bromoform                   | 0.324 | 0.348 | -7.4  | 97    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.701 | 3.651 | 1.4   | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 1.595 | 1.541 | 3.4   | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.483 | 1.410 | 4.9   | 93    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.225 | 1.220 | 0.4   | 95    | 0.00     |
| 77 T  | Bromobenzene                | 0.964 | 0.938 | 2.7   | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 4.361 | 4.474 | -2.6  | 97    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.646 | 2.571 | 2.8   | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.091 | 3.088 | 0.1   | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.475 | 0.471 | 0.8   | 103   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.034 | 2.998 | 1.2   | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.046 | 3.053 | -0.2  | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.086 | 3.150 | -2.1  | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.684 | 3.822 | -3.7  | 98    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.139 | 3.304 | -5.3  | 99    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.769 | 1.718 | 2.9   | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.826 | 1.744 | 4.5   | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.802 | 3.142 | -12.1 | 103   | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.528 | 0.535 | -1.3  | 100   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.782 | 1.696 | 4.8   | 94    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.285 | 0.290 | -1.8  | 93    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.137 | 1.189 | -4.6  | 99    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.520 | 0.576 | -10.8 | 110   | 0.00     |
| 95 T | Naphthalene                 | 3.869 | 3.803 | 1.7   | 94    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.209 | 1.206 | 0.2   | 99    | 0.00     |

(#) = Out of Range

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