

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\vy103119\  
 Data File : VY000497.D  
 Acq On : 31 Oct 2019 11:35  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 08:21:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y103019S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 30 13:30:53 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                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 113   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.492 | 0.518 | -5.3   | 113   | 0.00     |
| 3 P   | Chloromethane               | 0.678 | 0.704 | -3.8   | 116   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.630 | 0.650 | -3.2#  | 115   | 0.00     |
| 5 T   | Bromomethane                | 0.378 | 0.375 | 0.8    | 117   | 0.00     |
| 6 T   | Chloroethane                | 0.394 | 0.402 | -2.0   | 116   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.850 | 0.872 | -2.6   | 116   | 0.00     |
| 8 T   | Diethyl Ether               | 0.302 | 0.313 | -3.6   | 116   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.514 | 0.517 | -0.6   | 115   | 0.00     |
| 10 T  | Methyl Iodide               | 0.606 | 0.695 | -14.7  | 121   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.050 | 0.052 | -4.0   | 126   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.499 | 0.516 | -3.4#  | 112   | 0.00     |
| 13 T  | Acrolein                    | 0.044 | 0.046 | -4.5   | 120   | 0.00     |
| 14 T  | Allyl chloride              | 0.812 | 0.893 | -10.0  | 122   | 0.00     |
| 15 T  | Acrylonitrile               | 0.155 | 0.164 | -5.8   | 120   | 0.00     |
| 16 T  | Acetone                     | 0.143 | 0.170 | -18.9  | 123   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.575 | 1.654 | -5.0   | 118   | 0.00     |
| 18 T  | Methyl Acetate              | 0.443 | 0.449 | -1.4   | 122   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.389 | 1.449 | -4.3   | 118   | 0.00     |
| 20 T  | Methylene Chloride          | 0.611 | 0.591 | 3.3    | 119   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.565 | 0.584 | -3.4   | 116   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.765 | 1.920 | -8.8   | 122   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.114 | 1.221 | -9.6   | 122   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.956 | 0.983 | -2.8   | 117   | 0.00     |
| 25 T  | 2-Butanone                  | 0.228 | 0.251 | -10.1  | 120   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.874 | 0.889 | -1.7   | 118   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.617 | 0.638 | -3.4   | 116   | 0.00     |
| 28 T  | Bromochloromethane          | 0.388 | 0.474 | -22.2# | 114   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.139 | 0.147 | -5.8   | 120   | 0.00     |
| 30 C  | Chloroform                  | 0.967 | 1.013 | -4.8#  | 119   | 0.00     |
| 31 T  | Cyclohexane                 | 1.002 | 1.018 | -1.6   | 118   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.862 | 0.888 | -3.0   | 116   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.517 | 0.556 | -7.5   | 111   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 113   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.294 | 0.295 | -0.3   | 110   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.473 | 0.491 | -3.8   | 120   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.281 | 0.291 | -3.6   | 123   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.455 | 0.471 | -3.5   | 117   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.611 | 0.631 | -3.3   | 115   | 0.00     |
| 40 TM | Benzene                     | 1.386 | 1.408 | -1.6   | 116   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.157 | 0.131 | 16.6   | 102   | -0.02    |
| 42 TM | 1,2-Dichloroethane          | 0.393 | 0.409 | -4.1   | 117   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.527 | 0.561 | -6.5   | 123   | 0.00     |
| 44 TM | Trichloroethene             | 0.365 | 0.368 | -0.8   | 116   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.341 | 0.352 | -3.2#  | 117   | 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.188 | 0.194 | -3.2  | 118   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.445 | 0.459 | -3.1  | 114   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.230 | 0.251 | -9.1  | 126   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0   | 123   | 0.00     |
| 50 S  | Toluene-d8                  | 1.114 | 1.240 | -11.3 | 113   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.280 | 0.305 | -8.9  | 122   | 0.00     |
| 52 CM | Toluene                     | 0.876 | 0.903 | -3.1# | 117   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.476 | 0.509 | -6.9  | 116   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.545 | 0.575 | -5.5  | 117   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.271 | 0.284 | -4.8  | 119   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.385 | 0.419 | -8.8  | 118   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.475 | 0.493 | -3.8  | 116   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.174 | 0.202 | -16.1 | 125   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.204 | 0.229 | -12.3 | 121   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.311 | 0.320 | -2.9  | 114   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.261 | 0.280 | -7.3  | 118   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.424 | 0.445 | -5.0  | 114   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 115   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.413 | 0.391 | 5.3   | 109   | 0.00     |
| 65 PM | Chlorobenzene               | 1.014 | 1.029 | -1.5  | 118   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.352 | 0.360 | -2.3  | 114   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.866 | 1.924 | -3.1# | 116   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.722 | 0.735 | -1.8  | 114   | 0.00     |
| 69 T  | o-Xylene                    | 0.679 | 0.696 | -2.5  | 118   | 0.00     |
| 70 T  | Styrene                     | 1.162 | 1.202 | -3.4  | 115   | 0.00     |
| 71 P  | Bromoform                   | 0.202 | 0.212 | -5.0  | 116   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 112   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.695 | 3.790 | -2.6  | 116   | 0.00     |
| 74 T  | N-amyl acetate              | 1.058 | 1.171 | -10.7 | 122   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.732 | 0.782 | -6.8  | 123   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.569 | 0.557 | 2.1   | 100   | 0.00     |
| 77 T  | Bromobenzene                | 0.838 | 0.844 | -0.7  | 115   | 0.00     |
| 78 T  | n-propylbenzene             | 4.459 | 4.628 | -3.8  | 116   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.475 | 2.557 | -3.3  | 118   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.078 | 3.177 | -3.2  | 115   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.254 | 0.285 | -12.2 | 123   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.566 | 2.684 | -4.6  | 117   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.628 | 2.739 | -4.2  | 116   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.064 | 3.197 | -4.3  | 114   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.744 | 3.961 | -5.8  | 116   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.337 | 3.488 | -4.5  | 116   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.641 | 1.654 | -0.8  | 114   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.640 | 1.688 | -2.9  | 116   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.291 | 3.489 | -6.0  | 117   | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.617 | 0.643 | -4.2 | 114   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.489 | 1.505 | -1.1 | 113   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.129 | 0.134 | -3.9 | 119   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.014 | 1.047 | -3.3 | 120   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.523 | 0.525 | -0.4 | 111   | 0.00     |
| 95 T | Naphthalene                 | 2.251 | 2.370 | -5.3 | 120   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.910 | 0.917 | -0.8 | 113   | 0.00     |

(#) = Out of Range

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