

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW052819\  
 Data File : VW010579.D  
 Acq On : 28 May 2019 21:07  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 29 08:05:06 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W052019S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 21 06:38:43 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    | 86    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.468 | 0.402 | 14.1   | 75    | 0.00     |
| 3 P   | Chloromethane               | 0.525 | 0.438 | 16.6   | 69    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.609 | 0.482 | 20.9#  | 67    | 0.00     |
| 5 T   | Bromomethane                | 0.419 | 0.368 | 12.2   | 76    | 0.00     |
| 6 T   | Chloroethane                | 0.391 | 0.352 | 10.0   | 75    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.898 | 0.871 | 3.0    | 84    | 0.00     |
| 8 T   | Diethyl Ether               | 0.285 | 0.299 | -4.9   | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.553 | 0.548 | 0.9    | 86    | 0.00     |
| 10 T  | Methyl Iodide               | 0.632 | 0.591 | 6.5    | 76    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.046 | 0.062 | -34.8# | 124   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.528 | 0.516 | 2.3#   | 84    | 0.00     |
| 13 T  | Acrolein                    | 0.032 | 0.030 | 6.3    | 113   | 0.00     |
| 14 T  | Allyl chloride              | 0.764 | 0.746 | 2.4    | 84    | 0.00     |
| 15 T  | Acrylonitrile               | 0.119 | 0.126 | -5.9   | 92    | 0.00     |
| 16 T  | Acetone                     | 0.105 | 0.109 | -3.8   | 87    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.575 | 1.425 | 9.5    | 76    | 0.00     |
| 18 T  | Methyl Acetate              | 0.258 | 0.283 | -9.7   | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.346 | 1.440 | -7.0   | 92    | 0.00     |
| 20 T  | Methylene Chloride          | 0.751 | 0.586 | 22.0#  | 79    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.606 | 0.614 | -1.3   | 87    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.568 | 1.595 | -1.7   | 87    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.936 | 0.954 | -1.9   | 86    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.935 | 0.963 | -3.0   | 87    | 0.00     |
| 25 T  | 2-Butanone                  | 0.151 | 0.162 | -7.3   | 95    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.891 | 0.848 | 4.8    | 82    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.659 | 0.697 | -5.8   | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 0.335 | 0.342 | -2.1   | 86    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.102 | 0.103 | -1.0   | 90    | 0.00     |
| 30 C  | Chloroform                  | 1.009 | 1.068 | -5.8#  | 90    | 0.00     |
| 31 T  | Cyclohexane                 | 0.980 | 0.861 | 12.1   | 79    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.964 | 0.973 | -0.9   | 87    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.516 | 0.542 | -5.0   | 90    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 87    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.303 | 0.320 | -5.6   | 89    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.466 | 0.460 | 1.3    | 85    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.198 | 0.214 | -8.1   | 93    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.502 | 0.500 | 0.4    | 84    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.624 | 0.606 | 2.9    | 82    | 0.00     |
| 40 TM | Benzene                     | 1.295 | 1.354 | -4.6   | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.118 | 0.118 | 0.0    | 91    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.370 | 0.391 | -5.7   | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.396 | 0.410 | -3.5   | 90    | 0.00     |
| 44 TM | Trichloroethene             | 0.384 | 0.412 | -7.3   | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.307 | 0.323 | -5.2#  | 89    | 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.180 | 0.195 | -8.3  | 92    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.452 | 0.477 | -5.5  | 89    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.181 | 0.186 | -2.8  | 89    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0   | 102   | 0.00     |
| 50 S  | Toluene-d8                  | 1.159 | 1.196 | -3.2  | 87    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.201 | 0.215 | -7.0  | 93    | 0.00     |
| 52 CM | Toluene                     | 0.869 | 0.912 | -4.9# | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.458 | 0.475 | -3.7  | 88    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.523 | 0.545 | -4.2  | 88    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.259 | 0.288 | -11.2 | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.357 | 0.376 | -5.3  | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.433 | 0.476 | -9.9  | 93    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.158 | 0.164 | -3.8  | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.143 | 0.152 | -6.3  | 92    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.327 | 0.370 | -13.1 | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.262 | 0.289 | -10.3 | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.462 | 0.467 | -1.1  | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 88    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.349 | 0.384 | -10.0 | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 1.066 | 1.127 | -5.7  | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.382 | 0.417 | -9.2  | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.881 | 1.899 | -1.0# | 89    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.738 | 0.750 | -1.6  | 89    | 0.00     |
| 69 T  | o-Xylene                    | 0.699 | 0.723 | -3.4  | 91    | 0.00     |
| 70 T  | Styrene                     | 1.186 | 1.248 | -5.2  | 92    | 0.00     |
| 71 P  | Bromoform                   | 0.210 | 0.235 | -11.9 | 97    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.968 | 3.870 | 2.5   | 88    | 0.00     |
| 74 T  | N-amyl acetate              | 0.909 | 0.897 | 1.3   | 91    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.722 | 0.748 | -3.6  | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.508 | 0.404 | 20.5# | 75    | 0.00     |
| 77 T  | Bromobenzene                | 0.888 | 0.952 | -7.2  | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 4.624 | 4.391 | 5.0   | 87    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.681 | 2.618 | 2.3   | 89    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.360 | 3.330 | 0.9   | 89    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.243 | 0.230 | 5.3   | 86    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.783 | 2.745 | 1.4   | 90    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.935 | 2.839 | 3.3   | 88    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.347 | 3.298 | 1.5   | 89    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.108 | 3.938 | 4.1   | 87    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.718 | 3.597 | 3.3   | 87    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.742 | 1.814 | -4.1  | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.748 | 1.837 | -5.1  | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.537 | 3.333 | 5.8   | 84    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.720 | 0.706 | 1.9   | 87    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.587 | 1.698 | -7.0  | 96    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.134 | 0.138 | -3.0  | 95    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.080 | 1.181 | -9.4  | 94    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.577 | 0.615 | -6.6  | 90    | 0.00     |
| 95 T | Naphthalene                 | 2.267 | 2.445 | -7.9  | 93    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.929 | 1.045 | -12.5 | 96    | 0.00     |

(#) = Out of Range

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