

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW020119\  
 Data File : VW008473.D  
 Acq On : 01 Feb 2019 11:05  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 02 01:26:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W012419S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 25 11:07:41 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    | 64    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.253 | 0.291 | -15.0  | 63    | 0.00     |
| 3 P   | Chloromethane               | 0.408 | 0.350 | 14.2   | 53    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.520 | 0.556 | -6.9#  | 63    | 0.00     |
| 5 T   | Bromomethane                | 0.335 | 0.384 | -14.6  | 71    | 0.00     |
| 6 T   | Chloroethane                | 0.318 | 0.366 | -15.1  | 70    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.389 | 0.493 | -26.7# | 72    | 0.00     |
| 8 T   | Diethyl Ether               | 0.249 | 0.237 | 4.8    | 58    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.452 | 0.534 | -18.1  | 70    | 0.00     |
| 10 T  | Methyl Iodide               | 0.714 | 0.852 | -19.3  | 71    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.040 | 0.037 | 7.5    | 60    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.458 | 0.511 | -11.6# | 68    | 0.00     |
| 13 T  | Acrolein                    | 0.034 | 0.038 | -11.8  | 78    | 0.00     |
| 14 T  | Allyl chloride              | 0.869 | 0.885 | -1.8   | 61    | 0.00     |
| 15 T  | Acrylonitrile               | 0.108 | 0.102 | 5.6    | 57    | 0.00     |
| 16 T  | Acetone                     | 0.110 | 0.112 | -1.8   | 64    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.462 | 1.522 | -4.1   | 62    | 0.00     |
| 18 T  | Methyl Acetate              | 0.294 | 0.272 | 7.5    | 55    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.757 | 0.792 | -4.6   | 63    | 0.00     |
| 20 T  | Methylene Chloride          | 0.508 | 0.508 | 0.0    | 66    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.515 | 0.542 | -5.2   | 64    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.647 | 1.591 | 3.4    | 59    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.973 | 0.897 | 7.8    | 56    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.932 | 0.969 | -4.0   | 63    | 0.00     |
| 25 T  | 2-Butanone                  | 0.153 | 0.139 | 9.2    | 55    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.630 | 0.741 | -17.6  | 72    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.561 | 0.600 | -7.0   | 65    | 0.00     |
| 28 T  | Bromochloromethane          | 0.428 | 0.362 | 15.4   | 57    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.097 | 0.085 | 12.4   | 52    | 0.00     |
| 30 C  | Chloroform                  | 0.917 | 0.963 | -5.0#  | 63    | 0.00     |
| 31 T  | Cyclohexane                 | 0.964 | 0.933 | 3.2    | 61    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.792 | 0.899 | -13.5  | 69    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.491 | 0.475 | 3.3    | 62    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 61    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.292 | 0.321 | -9.9   | 65    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.472 | 0.539 | -14.2  | 63    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.209 | 0.201 | 3.8    | 52    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.475 | 0.569 | -19.8  | 67    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.620 | 0.681 | -9.8   | 61    | 0.00     |
| 40 TM | Benzene                     | 1.311 | 1.435 | -9.5   | 61    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.124 | 0.125 | -0.8   | 56    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.380 | 0.404 | -6.3   | 60    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.434 | 0.410 | 5.5    | 52    | 0.00     |
| 44 TM | Trichloroethene             | 0.356 | 0.417 | -17.1  | 66    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.327 | 0.347 | -6.1#  | 60    | 0.00     |

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 Quant Title : SW846 8260  
 QLast Update : Fri Jan 25 11:07:41 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) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 46 T  | Dibromomethane              | 0.168 | 0.177 | -5.4   | 60    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.445 | 0.481 | -8.1   | 61    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.212 | 0.197 | 7.1    | 53    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0    | 64    | 0.00     |
| 50 S  | Toluene-d8                  | 1.172 | 1.271 | -8.4   | 64    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.214 | 0.199 | 7.0    | 52    | 0.00     |
| 52 CM | Toluene                     | 0.865 | 0.938 | -8.4#  | 61    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.473 | 0.494 | -4.4   | 58    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.537 | 0.569 | -6.0   | 60    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.233 | 0.243 | -4.3   | 59    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.327 | 0.310 | 5.2    | 54    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.418 | 0.430 | -2.9   | 58    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.159 | 0.145 | 8.8    | 58    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.151 | 0.149 | 1.3    | 55    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.300 | 0.320 | -6.7   | 60    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.231 | 0.239 | -3.5   | 59    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.451 | 0.455 | -0.9   | 61    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 58    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.339 | 0.396 | -16.8  | 64    | 0.00     |
| 65 PM | Chlorobenzene               | 1.021 | 1.166 | -14.2  | 62    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.365 | 0.417 | -14.2  | 62    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.876 | 2.119 | -13.0# | 61    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.728 | 0.824 | -13.2  | 61    | 0.00     |
| 69 T  | o-Xylene                    | 0.692 | 0.771 | -11.4  | 61    | 0.00     |
| 70 T  | Styrene                     | 1.142 | 1.236 | -8.2   | 59    | 0.00     |
| 71 P  | Bromoform                   | 0.205 | 0.218 | -6.3   | 57    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 56    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.728 | 4.270 | -14.5  | 61    | 0.00     |
| 74 T  | N-amyl acetate              | 0.960 | 0.892 | 7.1    | 49#   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.590 | 0.619 | -4.9   | 56    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.435 | 0.470 | -8.0   | 58    | 0.00     |
| 77 T  | Bromobenzene                | 0.814 | 0.930 | -14.3  | 62    | 0.00     |
| 78 T  | n-propylbenzene             | 4.477 | 5.188 | -15.9  | 61    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.526 | 2.819 | -11.6  | 59    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.116 | 3.527 | -13.2  | 60    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.220 | 0.223 | -1.4   | 53    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.690 | 2.974 | -10.6  | 59    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.773 | 3.229 | -16.4  | 62    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.167 | 3.588 | -13.3  | 60    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.960 | 4.607 | -16.3  | 61    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.468 | 4.087 | -17.8  | 62    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.644 | 1.870 | -13.7  | 60    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.634 | 1.858 | -13.7  | 60    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.405 | 3.922 | -15.2  | 60    | 0.00     |

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Quant Title : SW846 8260  
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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) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 90 T | Hexachloroethane            | 0.678 | 0.783 | -15.5  | 61    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.455 | 1.622 | -11.5  | 59    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.112 | 0.109 | 2.7    | 53    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.038 | 1.205 | -16.1  | 62    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.626 | 0.773 | -23.5# | 67    | 0.00     |
| 95 T | Naphthalene                 | 1.823 | 1.978 | -8.5   | 57    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.881 | 1.003 | -13.8  | 60    | 0.00     |

(#) = Out of Range

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