

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW083119\  
 Data File : VW012414.D  
 Acq On : 31 Aug 2019 22:01  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 01 04:53:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 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   | 82    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.308 | 0.293 | 4.9   | 71    | 0.00     |
| 3 P   | Chloromethane               | 0.477 | 0.450 | 5.7   | 75    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.584 | 0.555 | 5.0#  | 73    | 0.00     |
| 5 T   | Bromomethane                | 0.296 | 0.318 | -7.4  | 81    | 0.00     |
| 6 T   | Chloroethane                | 0.329 | 0.319 | 3.0   | 73    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.293 | 0.327 | -11.6 | 85    | -0.01    |
| 8 T   | Diethyl Ether               | 0.278 | 0.284 | -2.2  | 78    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.498 | 0.505 | -1.4  | 78    | -0.01    |
| 10 T  | Methyl Iodide               | 0.674 | 0.714 | -5.9  | 80    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.036 | 0.036 | 0.0   | 78    | 0.08     |
| 12 CM | 1,1-Dichloroethene          | 0.502 | 0.501 | 0.2#  | 76    | -0.01    |
| 13 T  | Acrolein                    | 0.034 | 0.028 | 17.6  | 71    | 0.01     |
| 14 T  | Allyl chloride              | 1.072 | 1.121 | -4.6  | 79    | 0.00     |
| 15 T  | Acrylonitrile               | 0.138 | 0.143 | -3.6  | 81    | 0.01     |
| 16 T  | Acetone                     | 0.152 | 0.128 | 15.8  | 59    | 0.03     |
| 17 T  | Carbon Disulfide            | 1.516 | 1.484 | 2.1   | 72    | 0.00     |
| 18 T  | Methyl Acetate              | 0.376 | 0.401 | -6.6  | 85    | 0.01     |
| 19 T  | Methyl tert-butyl Ether     | 0.811 | 0.934 | -15.2 | 88    | 0.00     |
| 20 T  | Methylene Chloride          | 0.574 | 0.578 | -0.7  | 82    | -0.01    |
| 21 T  | trans-1,2-Dichloroethene    | 0.538 | 0.556 | -3.3  | 79    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.987 | 2.154 | -8.4  | 83    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.223 | 1.306 | -6.8  | 79    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.082 | 1.137 | -5.1  | 81    | 0.00     |
| 25 T  | 2-Butanone                  | 0.206 | 0.196 | 4.9   | 70    | 0.01     |
| 26 T  | 2,2-Dichloropropane         | 0.612 | 0.630 | -2.9  | 81    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.575 | 0.603 | -4.9  | 80    | 0.00     |
| 28 T  | Bromochloromethane          | 0.472 | 0.479 | -1.5  | 87    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.124 | 0.129 | -4.0  | 78    | 0.00     |
| 30 C  | Chloroform                  | 0.990 | 1.065 | -7.6# | 85    | 0.00     |
| 31 T  | Cyclohexane                 | 1.071 | 0.988 | 7.7   | 74    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.783 | 0.858 | -9.6  | 85    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.594 | 0.620 | -4.4  | 85    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 82    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.298 | 0.301 | -1.0  | 82    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.517 | 0.531 | -2.7  | 80    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.283 | 0.292 | -3.2  | 80    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.447 | 0.486 | -8.7  | 84    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.580 | 0.567 | 2.2   | 74    | 0.00     |
| 40 TM | Benzene                     | 1.411 | 1.461 | -3.5  | 80    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.166 | 0.190 | -14.5 | 88    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.442 | 0.479 | -8.4  | 84    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.524 | 0.547 | -4.4  | 80    | 0.00     |
| 44 TM | Trichloroethene             | 0.343 | 0.357 | -4.1  | 81    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.380 | 0.398 | -4.7# | 82    | 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.169 | 0.178 | -5.3  | 83    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.450 | 0.496 | -10.2 | 85    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.250 | 0.270 | -8.0  | 81    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.002 | 33.3# | 70    | 0.05     |
| 50 S  | Toluene-d8                  | 1.210 | 1.197 | 1.1   | 80    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.267 | 0.281 | -5.2  | 81    | 0.00     |
| 52 CM | Toluene                     | 0.848 | 0.889 | -4.8# | 81    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.458 | 0.490 | -7.0  | 80    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.553 | 0.583 | -5.4  | 80    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.239 | 0.257 | -7.5  | 85    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.348 | 0.374 | -7.5  | 81    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.452 | 0.484 | -7.1  | 83    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.179 | 0.184 | -2.8  | 85    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.189 | 0.188 | 0.5   | 73    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.266 | 0.293 | -10.2 | 83    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.223 | 0.238 | -6.7  | 82    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.427 | 0.422 | 1.2   | 81    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 83    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.324 | 0.349 | -7.7  | 83    | 0.00     |
| 65 PM | Chlorobenzene               | 0.985 | 1.023 | -3.9  | 82    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.343 | 0.370 | -7.9  | 83    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.897 | 1.978 | -4.3# | 82    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.683 | 0.709 | -3.8  | 81    | 0.00     |
| 69 T  | o-Xylene                    | 0.632 | 0.661 | -4.6  | 81    | 0.00     |
| 70 T  | Styrene                     | 1.094 | 1.158 | -5.9  | 81    | 0.00     |
| 71 P  | Bromoform                   | 0.171 | 0.188 | -9.9  | 86    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 81    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.747 | 3.955 | -5.6  | 81    | 0.00     |
| 74 T  | N-amyl acetate              | 1.132 | 1.198 | -5.8  | 79    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.687 | 0.712 | -3.6  | 81    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.487 | 0.484 | 0.6   | 78    | 0.00     |
| 77 T  | Bromobenzene                | 0.811 | 0.856 | -5.5  | 83    | 0.00     |
| 78 T  | n-propylbenzene             | 4.574 | 4.770 | -4.3  | 80    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.597 | 2.743 | -5.6  | 82    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.131 | 3.347 | -6.9  | 82    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.222 | 0.227 | -2.3  | 77    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.719 | 2.873 | -5.7  | 82    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.652 | 2.861 | -7.9  | 83    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.145 | 3.339 | -6.2  | 82    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.799 | 3.996 | -5.2  | 81    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.393 | 3.591 | -5.8  | 81    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.585 | 1.655 | -4.4  | 83    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.574 | 1.627 | -3.4  | 82    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.374 | 3.495 | -3.6  | 78    | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.595 | 0.646 | -8.6  | 82    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.391 | 1.484 | -6.7  | 83    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.116 | 0.126 | -8.6  | 87    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.961 | 1.013 | -5.4  | 80    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.635 | 0.678 | -6.8  | 84    | 0.00     |
| 95 T | Naphthalene                 | 1.683 | 1.897 | -12.7 | 82    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.839 | 0.919 | -9.5  | 83    | 0.00     |

(#) = Out of Range

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