

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD120619\  
 Data File : VD064467.D  
 Acq On : 06 Dec 2019 19:17  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 06 23:48:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D112719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 29 07:18:03 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   | 90    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.453 | 0.402 | 11.3  | 84    | 0.00     |
| 3 P   | Chloromethane               | 0.571 | 0.547 | 4.2   | 90    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.660 | 0.640 | 3.0#  | 88    | 0.00     |
| 5 T   | Bromomethane                | 0.488 | 0.450 | 7.8   | 88    | 0.00     |
| 6 T   | Chloroethane                | 0.441 | 0.444 | -0.7  | 92    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.097 | 1.084 | 1.2   | 90    | 0.00     |
| 8 T   | Diethyl Ether               | 0.228 | 0.229 | -0.4  | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.470 | 0.455 | 3.2   | 89    | 0.00     |
| 10 T  | Methyl Iodide               | 0.497 | 0.523 | -5.2  | 84    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.029 | 0.027 | 6.9   | 83    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.451 | 0.442 | 2.0#  | 89    | 0.00     |
| 13 T  | Acrolein                    | 0.039 | 0.035 | 10.3  | 86    | 0.00     |
| 14 T  | Allyl chloride              | 0.703 | 0.714 | -1.6  | 91    | 0.00     |
| 15 T  | Acrylonitrile               | 0.100 | 0.098 | 2.0   | 90    | 0.00     |
| 16 T  | Acetone                     | 0.091 | 0.083 | 8.8   | 77    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.427 | 1.383 | 3.1   | 86    | 0.00     |
| 18 T  | Methyl Acetate              | 0.267 | 0.266 | 0.4   | 93    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.034 | 1.050 | -1.5  | 90    | 0.00     |
| 20 T  | Methylene Chloride          | 0.526 | 0.514 | 2.3   | 95    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.510 | 0.513 | -0.6  | 91    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.388 | 1.429 | -3.0  | 92    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.819 | 0.847 | -3.4  | 90    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.835 | 0.855 | -2.4  | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 0.129 | 0.125 | 3.1   | 85    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.726 | 0.720 | 0.8   | 90    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.556 | 0.566 | -1.8  | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 0.285 | 0.312 | -9.5  | 92    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.082 | 0.081 | 1.2   | 90    | 0.00     |
| 30 C  | Chloroform                  | 0.865 | 0.880 | -1.7# | 91    | 0.00     |
| 31 T  | Cyclohexane                 | 0.818 | 0.741 | 9.4   | 87    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.802 | 0.814 | -1.5  | 91    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.453 | 0.474 | -4.6  | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.315 | 0.321 | -1.9  | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.473 | 0.458 | 3.2   | 92    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.201 | 0.196 | 2.5   | 90    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.499 | 0.487 | 2.4   | 89    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.587 | 0.554 | 5.6   | 86    | 0.00     |
| 40 TM | Benzene                     | 1.314 | 1.304 | 0.8   | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.115 | 0.127 | -10.4 | 89    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.383 | 0.386 | -0.8  | 93    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.395 | 0.385 | 2.5   | 88    | 0.00     |
| 44 TM | Trichloroethene             | 0.396 | 0.383 | 3.3   | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.314 | 0.324 | -3.2# | 93    | 0.00     |

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|       | Compound                    | AvqRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 46 T  | Dibromomethane              | 0.177 | 0.178 | -0.6 | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.456 | 0.475 | -4.2 | 94    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.181 | 0.181 | 0.0  | 91    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0  | 93    | 0.00     |
| 50 S  | Toluene-d8                  | 1.187 | 1.196 | -0.8 | 95    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.195 | 0.194 | 0.5  | 91    | 0.00     |
| 52 CM | Toluene                     | 0.856 | 0.835 | 2.5# | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.434 | 0.436 | -0.5 | 90    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.516 | 0.526 | -1.9 | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.243 | 0.240 | 1.2  | 92    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.310 | 0.312 | -0.6 | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.413 | 0.414 | -0.2 | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.123 | 0.117 | 4.9  | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.135 | 0.129 | 4.4  | 86    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.329 | 0.336 | -2.1 | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.242 | 0.239 | 1.2  | 91    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.381 | 0.379 | 0.5  | 95    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.381 | 0.359 | 5.8  | 89    | 0.00     |
| 65 PM | Chlorobenzene               | 1.043 | 1.007 | 3.5  | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.386 | 0.387 | -0.3 | 94    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.855 | 1.774 | 4.4# | 91    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.707 | 0.690 | 2.4  | 92    | 0.00     |
| 69 T  | o-Xylene                    | 0.653 | 0.638 | 2.3  | 92    | 0.00     |
| 70 T  | Styrene                     | 1.135 | 1.114 | 1.9  | 93    | 0.00     |
| 71 P  | Bromoform                   | 0.231 | 0.222 | 3.9  | 93    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.596 | 3.380 | 6.0  | 91    | 0.00     |
| 74 T  | N-amyl acetate              | 0.816 | 0.780 | 4.4  | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.595 | 0.551 | 7.4  | 89    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.411 | 0.421 | -2.4 | 105   | 0.00     |
| 77 T  | Bromobenzene                | 0.888 | 0.846 | 4.7  | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 4.149 | 3.922 | 5.5  | 92    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.283 | 2.177 | 4.6  | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.939 | 2.774 | 5.6  | 91    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.189 | 0.182 | 3.7  | 92    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.417 | 2.319 | 4.1  | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.555 | 2.463 | 3.6  | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.955 | 2.798 | 5.3  | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.506 | 3.278 | 6.5  | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.310 | 3.141 | 5.1  | 92    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.685 | 1.598 | 5.2  | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.664 | 1.589 | 4.5  | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.006 | 2.859 | 4.9  | 91    | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.619 | 0.582 | 6.0  | 91    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.440 | 1.389 | 3.5  | 92    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.100 | 0.084 | 16.0 | 87    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.103 | 1.040 | 5.7  | 92    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.681 | 0.625 | 8.2  | 87    | 0.00     |
| 95 T | Naphthalene                 | 1.841 | 1.708 | 7.2  | 89    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.942 | 0.907 | 3.7  | 92    | 0.00     |

(#) = Out of Range

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