

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD110119\  
 Data File : VD064152.D  
 Acq On : 01 Nov 2019 17:57  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 01 17:30:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D102919S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 30 08:00:10 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   | 92    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.511 | 0.469 | 8.2   | 86    | 0.00     |
| 3 P   | Chloromethane               | 0.852 | 0.772 | 9.4   | 86    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.924 | 0.864 | 6.5#  | 85    | 0.00     |
| 5 T   | Bromomethane                | 0.602 | 0.589 | 2.2   | 87    | 0.00     |
| 6 T   | Chloroethane                | 0.574 | 0.562 | 2.1   | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.272 | 1.199 | 5.7   | 86    | 0.00     |
| 8 T   | Diethyl Ether               | 0.221 | 0.212 | 4.1   | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.458 | 0.438 | 4.4   | 89    | 0.00     |
| 10 T  | Methyl Iodide               | 0.568 | 0.588 | -3.5  | 88    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.021 | 0.020 | 4.8   | 84    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.434 | 0.421 | 3.0#  | 91    | 0.00     |
| 13 T  | Acrolein                    | 0.025 | 0.017 | 32.0# | 60    | 0.00     |
| 14 T  | Allyl chloride              | 0.508 | 0.512 | -0.8  | 91    | 0.00     |
| 15 T  | Acrylonitrile               | 0.082 | 0.079 | 3.7   | 88    | 0.00     |
| 16 T  | Acetone                     | 0.076 | 0.080 | -5.3  | 85    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.333 | 1.306 | 2.0   | 90    | 0.00     |
| 18 T  | Methyl Acetate              | 0.201 | 0.191 | 5.0   | 89    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.880 | 0.881 | -0.1  | 92    | 0.01     |
| 20 T  | Methylene Chloride          | 0.541 | 0.534 | 1.3   | 101   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.487 | 0.502 | -3.1  | 95    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.124 | 1.170 | -4.1  | 95    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.616 | 0.650 | -5.5  | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.759 | 0.755 | 0.5   | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 0.105 | 0.103 | 1.9   | 87    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.721 | 0.694 | 3.7   | 89    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.545 | 0.562 | -3.1  | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 0.277 | 0.296 | -6.9  | 90    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.061 | 0.064 | -4.9  | 94    | 0.00     |
| 30 C  | Chloroform                  | 0.869 | 0.880 | -1.3# | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 0.740 | 0.662 | 10.5  | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.809 | 0.803 | 0.7   | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.398 | 0.391 | 1.8   | 88    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.308 | 0.292 | 5.2   | 87    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.469 | 0.448 | 4.5   | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.144 | 0.144 | 0.0   | 92    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.511 | 0.509 | 0.4   | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.575 | 0.553 | 3.8   | 87    | 0.00     |
| 40 TM | Benzene                     | 1.278 | 1.276 | 0.2   | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.083 | 0.053 | 36.1# | 60    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.337 | 0.346 | -2.7  | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.291 | 0.286 | 1.7   | 92    | 0.00     |
| 44 TM | Trichloroethene             | 0.387 | 0.390 | -0.8  | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.296 | 0.296 | 0.0   | 96    | 0.00     |

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|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.178 | 0.177 | 0.6   | 92    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.450 | 0.450 | 0.0   | 92    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.135 | 0.135 | 0.0   | 92    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 93    | 0.00     |
| 50 S  | Toluene-d8                  | 1.230 | 1.168 | 5.0   | 89    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.159 | 0.154 | 3.1   | 88    | 0.00     |
| 52 CM | Toluene                     | 0.895 | 0.909 | -1.6# | 94    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.420 | 0.431 | -2.6  | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.494 | 0.506 | -2.4  | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.253 | 0.243 | 4.0   | 88    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.275 | 0.293 | -6.5  | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.418 | 0.406 | 2.9   | 89    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.111 | 0.115 | -3.6  | 98    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.113 | 0.115 | -1.8  | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.343 | 0.346 | -0.9  | 92    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.253 | 0.252 | 0.4   | 90    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.408 | 0.401 | 1.7   | 91    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.359 | 0.350 | 2.5   | 92    | 0.00     |
| 65 PM | Chlorobenzene               | 1.033 | 1.060 | -2.6  | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.387 | 0.393 | -1.6  | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.838 | 1.818 | 1.1#  | 92    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.739 | 0.756 | -2.3  | 94    | 0.00     |
| 69 T  | o-Xylene                    | 0.675 | 0.697 | -3.3  | 95    | 0.00     |
| 70 T  | Styrene                     | 1.163 | 1.217 | -4.6  | 93    | 0.00     |
| 71 P  | Bromoform                   | 0.206 | 0.206 | 0.0   | 93    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.474 | 3.353 | 3.5   | 91    | 0.00     |
| 74 T  | N-amyl acetate              | 0.577 | 0.547 | 5.2   | 86    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.548 | 0.502 | 8.4   | 89    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.336 | 0.358 | -6.5  | 92    | 0.00     |
| 77 T  | Bromobenzene                | 0.839 | 0.834 | 0.6   | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 4.072 | 3.975 | 2.4   | 91    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.183 | 2.118 | 3.0   | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.908 | 2.883 | 0.9   | 92    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.165 | 0.154 | 6.7   | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.332 | 2.324 | 0.3   | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.612 | 2.573 | 1.5   | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.921 | 2.994 | -2.5  | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.587 | 3.537 | 1.4   | 89    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.370 | 3.425 | -1.6  | 91    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.681 | 1.718 | -2.2  | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.657 | 1.654 | 0.2   | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.108 | 3.098 | 0.3   | 89    | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.631 | 0.630 | 0.2  | 94    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.447 | 1.464 | -1.2 | 94    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.080 | 0.078 | 2.5  | 95    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.040 | 1.059 | -1.8 | 93    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.608 | 0.608 | 0.0  | 91    | 0.00     |
| 95 T | Naphthalene                 | 1.696 | 1.708 | -0.7 | 91    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.901 | 0.905 | -0.4 | 97    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 5