

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041919\  
 Data File : VD061904.D  
 Acq On : 19 Apr 2019 12:01  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 19 12:24:44 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D041519S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 18 13:49:04 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   | 99    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.488 | 0.475 | 2.7   | 96    | 0.00     |
| 3 P   | Chloromethane               | 0.389 | 0.370 | 4.9   | 101   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.386 | 0.355 | 8.0#  | 87    | 0.00     |
| 5 T   | Bromomethane                | 0.099 | 0.082 | 17.2  | 83    | 0.00     |
| 6 T   | Chloroethane                | 0.132 | 0.141 | -6.8  | 89    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.626 | 0.533 | 14.9  | 85    | 0.00     |
| 8 T   | Diethyl Ether               | 0.164 | 0.145 | 11.6  | 85    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.558 | 0.555 | 0.5   | 103   | 0.00     |
| 10 T  | Methyl Iodide               | 0.753 | 0.798 | -6.0  | 89    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.025 | 0.027 | -8.0  | 107   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.469 | 0.480 | -2.3# | 104   | 0.00     |
| 13 T  | Acrolein                    | 0.024 | 0.022 | 8.3   | 104   | 0.00     |
| 14 T  | Allyl chloride              | 0.640 | 0.622 | 2.8   | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 0.078 | 0.079 | -1.3  | 102   | 0.01     |
| 16 T  | Acetone                     | 0.103 | 0.120 | -16.5 | 111   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.516 | 1.341 | 11.5  | 87    | 0.00     |
| 18 T  | Methyl Acetate              | 0.207 | 0.190 | 8.2   | 97    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.876 | 0.866 | 1.1   | 98    | 0.00     |
| 20 T  | Methylene Chloride          | 0.623 | 0.500 | 19.7  | 97    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.516 | 0.510 | 1.2   | 98    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.367 | 1.391 | -1.8  | 99    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.731 | 0.757 | -3.6  | 101   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.829 | 0.831 | -0.2  | 102   | 0.00     |
| 25 T  | 2-Butanone                  | 0.118 | 0.129 | -9.3  | 112   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.717 | 0.749 | -4.5  | 107   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.559 | 0.558 | 0.2   | 101   | 0.00     |
| 28 T  | Bromochloromethane          | 0.315 | 0.308 | 2.2   | 101   | 0.00     |
| 29    | Tetrahydrofuran             | 0.057 | 0.064 | -12.3 | 111   | 0.01     |
| 30 C  | Chloroform                  | 0.925 | 0.937 | -1.3# | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 0.635 | 0.640 | -0.8  | 96    | 0.01     |
| 32 T  | 1,1,1-Trichloroethane       | 0.820 | 0.817 | 0.4   | 98    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.419 | 0.385 | 8.1   | 99    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.378 | 0.351 | 7.1   | 102   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.409 | 0.390 | 4.6   | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.175 | 0.188 | -7.4  | 111   | 0.01     |
| 38 T  | Carbon Tetrachloride        | 0.516 | 0.540 | -4.7  | 108   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.424 | 0.399 | 5.9   | 96    | 0.01     |
| 40 TM | Benzene                     | 0.981 | 0.905 | 7.7   | 90    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.207 | 0.219 | -5.8  | 111   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.342 | 0.337 | 1.5   | 104   | 0.01     |
| 43 T  | Isopropyl Acetate           | 0.246 | 0.257 | -4.5  | 103   | 0.00     |
| 44 TM | Trichloroethene             | 0.378 | 0.369 | 2.4   | 97    | 0.01     |
| 45 C  | 1,2-Dichloropropane         | 0.256 | 0.244 | 4.7#  | 99    | 0.00     |

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

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.182 | 0.175 | 3.8   | 96    | 0.01     |
| 47 T  | Bromodichloromethane        | 0.420 | 0.415 | 1.2   | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.145 | 0.145 | 0.0   | 97    | 0.01     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 97    | 0.01     |
| 50 S  | Toluene-d8                  | 0.895 | 0.795 | 11.2  | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.150 | 0.158 | -5.3  | 107   | 0.00     |
| 52 CM | Toluene                     | 0.629 | 0.620 | 1.4#  | 104   | 0.01     |
| 53 T  | t-1,3-Dichloropropene       | 0.378 | 0.345 | 8.7   | 89    | 0.01     |
| 54 T  | cis-1,3-Dichloropropene     | 0.444 | 0.449 | -1.1  | 100   | 0.01     |
| 55 T  | 1,1,2-Trichloroethane       | 0.212 | 0.201 | 5.2   | 98    | 0.01     |
| 56 T  | Ethyl methacrylate          | 0.232 | 0.225 | 3.0   | 105   | 0.01     |
| 57 T  | 1,3-Dichloropropane         | 0.318 | 0.313 | 1.6   | 104   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.111 | 0.097 | 12.6  | 104   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.112 | 0.111 | 0.9   | 103   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.347 | 0.346 | 0.3   | 95    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.260 | 0.254 | 2.3   | 98    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.363 | 0.341 | 6.1   | 107   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.375 | 0.369 | 1.6   | 95    | 0.01     |
| 65 PM | Chlorobenzene               | 0.931 | 1.013 | -8.8  | 106   | 0.01     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.390 | 0.386 | 1.0   | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.491 | 1.449 | 2.8#  | 100   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.560 | 0.531 | 5.2   | 89    | 0.00     |
| 69 T  | o-Xylene                    | 0.526 | 0.534 | -1.5  | 107   | 0.00     |
| 70 T  | Styrene                     | 0.906 | 0.875 | 3.4   | 98    | 0.00     |
| 71 P  | Bromoform                   | 0.232 | 0.258 | -11.2 | 105   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.243 | 3.026 | 6.7   | 98    | 0.00     |
| 74 T  | N-amyl acetate              | 0.872 | 0.850 | 2.5   | 103   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.641 | 0.677 | -5.6  | 100   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.657 | 0.681 | -3.7  | 100   | 0.00     |
| 77 T  | Bromobenzene                | 0.921 | 0.944 | -2.5  | 101   | 0.00     |
| 78 T  | n-propylbenzene             | 3.746 | 3.984 | -6.4  | 102   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.189 | 1.974 | 9.8   | 91    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.573 | 2.412 | 6.3   | 102   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.187 | 0.194 | -3.7  | 98    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.505 | 2.342 | 6.5   | 100   | 0.01     |
| 83 T  | tert-Butylbenzene           | 3.021 | 2.785 | 7.8   | 89    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.586 | 2.612 | -1.0  | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.123 | 3.142 | -0.6  | 101   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.922 | 3.066 | -4.9  | 105   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.608 | 1.792 | -11.4 | 109   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.590 | 1.577 | 0.8   | 97    | 0.01     |
| 89 T  | n-Butylbenzene              | 2.587 | 2.685 | -3.8  | 105   | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 90 T | Hexachloroethane            | 0.796 | 0.829 | -4.1   | 97    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.347 | 1.381 | -2.5   | 103   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.089 | 0.092 | -3.4   | 98    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.740 | 0.861 | -16.4  | 120   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.536 | 0.596 | -11.2  | 109   | 0.00     |
| 95 T | Naphthalene                 | 1.134 | 1.429 | -26.0# | 114   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.422 | 0.592 | -40.3# | 136   | 0.01     |

(#) = Out of Range

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