

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD032224\  
 Data File : VD078748.D  
 Acq On : 22 Mar 2024 17:38  
 Operator : RP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ml/MSVOA\_D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 22 23:22:37 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031424S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 15 05:38:03 2024  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 73    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.465 | 0.443 | 4.7    | 73    | 0.00     |
| 3 P   | Chloromethane               | 0.735 | 0.692 | 5.9    | 72    | 0.00     |
| 4 C   | Vinyl Chloride              | 1.084 | 1.002 | 7.6#   | 70    | 0.00     |
| 5 T   | Bromomethane                | 1.038 | 0.953 | 8.2    | 76    | 0.00     |
| 6 T   | Chloroethane                | 0.845 | 0.828 | 2.0    | 76    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.858 | 0.858 | 0.0    | 77    | 0.00     |
| 8 T   | Diethyl Ether               | 0.250 | 0.248 | 0.8    | 77    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.538 | 0.547 | -1.7   | 79    | 0.00     |
| 10 T  | Methyl Iodide               | 0.637 | 0.688 | -8.0   | 80    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.021 | 0.021 | 0.0    | 73    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.512 | 0.510 | 0.4#   | 75    | 0.00     |
| 13 T  | Acrolein                    | 0.033 | 0.023 | 30.3#  | 62    | 0.00     |
| 14 T  | Allyl chloride              | 0.571 | 0.589 | -3.2   | 80    | 0.00     |
| 15 T  | Acrylonitrile               | 0.101 | 0.109 | -7.9   | 78    | 0.00     |
| 16 T  | Acetone                     | 0.091 | 0.092 | -1.1   | 74    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.677 | 1.601 | 4.5    | 73    | 0.00     |
| 18 T  | Methyl Acetate              | 0.194 | 0.250 | -28.9# | 90    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.032 | 1.097 | -6.3   | 78    | 0.00     |
| 20 T  | Methylene Chloride          | 0.769 | 0.688 | 10.5   | 82    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.604 | 0.642 | -6.3   | 80    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.298 | 1.440 | -10.9  | 82    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.759 | 0.830 | -9.4   | 79    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.973 | 1.050 | -7.9   | 83    | 0.00     |
| 25 T  | 2-Butanone                  | 0.120 | 0.123 | -2.5   | 77    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.823 | 0.859 | -4.4   | 80    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.689 | 0.747 | -8.4   | 83    | 0.00     |
| 28 T  | Bromochloromethane          | 0.347 | 0.420 | -21.0  | 79    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.066 | 0.074 | -12.1  | 80    | 0.00     |
| 30 C  | Chloroform                  | 1.085 | 1.186 | -9.3#  | 86    | 0.00     |
| 31 T  | Cyclohexane                 | 0.788 | 0.742 | 5.8    | 74    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.920 | 0.969 | -5.3   | 82    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.469 | 0.464 | 1.1    | 77    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 73    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.322 | 0.319 | 0.9    | 76    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.467 | 0.506 | -8.4   | 82    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.153 | 0.166 | -8.5   | 83    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.492 | 0.525 | -6.7   | 83    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.542 | 0.560 | -3.3   | 76    | 0.00     |
| 40 TM | Benzene                     | 1.412 | 1.525 | -8.0   | 82    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.080 | 0.070 | 12.5   | 68    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.344 | 0.389 | -13.1  | 85    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.278 | 0.300 | -7.9   | 79    | 0.00     |
| 44 TM | Trichloroethene             | 0.383 | 0.406 | -6.0   | 82    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.335 | 0.375 | -11.9# | 85    | 0.00     |
| 46 T  | Dibromomethane              | 0.201 | 0.224 | -11.4  | 85    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.478 | 0.544 | -13.8  | 89    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.135 | 0.148 | -9.6   | 82    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.00G/5ml/MSVOA\_D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 22 23:22:37 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031424S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 15 05:38:03 2024  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0    | 80    | 0.00     |
| 50 S  | Toluene-d8                  | 1.184 | 1.217 | -2.8   | 77    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.145 | 0.165 | -13.8  | 81    | 0.00     |
| 52 CM | Toluene                     | 0.909 | 1.005 | -10.6# | 81    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.437 | 0.490 | -12.1  | 85    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.525 | 0.590 | -12.4  | 85    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.269 | 0.309 | -14.9  | 88    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.270 | 0.295 | -9.3   | 78    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.434 | 0.494 | -13.8  | 86    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.119 | 0.131 | -10.1  | 77    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.108 | 0.119 | -10.2  | 80    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.332 | 0.367 | -10.5  | 83    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.260 | 0.284 | -9.2   | 82    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.346 | 0.373 | -7.8   | 80    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 75    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.331 | 0.346 | -4.5   | 81    | 0.00     |
| 65 PM | Chlorobenzene               | 1.045 | 1.123 | -7.5   | 84    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.383 | 0.415 | -8.4   | 85    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.780 | 1.942 | -9.1#  | 83    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.723 | 0.795 | -10.0  | 84    | 0.00     |
| 69 T  | o-Xylene                    | 0.669 | 0.743 | -11.1  | 84    | 0.00     |
| 70 T  | Styrene                     | 1.123 | 1.284 | -14.3  | 85    | 0.00     |
| 71 P  | Bromoform                   | 0.207 | 0.229 | -10.6  | 85    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 80    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.292 | 3.404 | -3.4   | 83    | 0.00     |
| 74 T  | N-amyl acetate              | 0.534 | 0.557 | -4.3   | 82    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.609 | 0.619 | -1.6   | 82    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.385 | 0.474 | -23.1  | 102   | 0.00     |
| 77 T  | Bromobenzene                | 0.816 | 0.840 | -2.9   | 84    | 0.00     |
| 78 T  | n-propylbenzene             | 4.007 | 4.239 | -5.8   | 84    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.198 | 2.288 | -4.1   | 86    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.722 | 2.902 | -6.6   | 86    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.184 | 0.197 | -7.1   | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.325 | 2.447 | -5.2   | 86    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.347 | 2.515 | -7.2   | 85    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.743 | 2.925 | -6.6   | 84    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.552 | 3.784 | -6.5   | 84    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.041 | 3.262 | -7.3   | 85    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.723 | 1.825 | -5.9   | 87    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.698 | 1.762 | -3.8   | 86    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.746 | 2.959 | -7.8   | 86    | 0.00     |
| 90 T  | Hexachloroethane            | 0.629 | 0.637 | -1.3   | 84    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.484 | 1.540 | -3.8   | 87    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.082 | 0.084 | -2.4   | 86    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.866 | 0.880 | -1.6   | 86    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.469 | 0.490 | -4.5   | 90    | 0.00     |
| 95 T  | Naphthalene                 | 1.506 | 1.549 | -2.9   | 81    | 0.00     |

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031424S.M  
Quant Title : SW846 8260  
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Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.749 | 0.793 | -5.9 | 84    | 0.00     |

(#) = Out of Range

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