

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD021924\  
 Data File : VD078458.D  
 Acq On : 19 Feb 2024 09:58  
 Operator : RP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 19 23:47:01 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021324S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 14 01:16:20 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    | 93    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.493 | 0.489 | 0.8    | 90    | 0.00     |
| 3 P   | Chloromethane               | 0.905 | 0.780 | 13.8   | 84    | 0.00     |
| 4 C   | Vinyl Chloride              | 1.382 | 1.178 | 14.8#  | 85    | 0.00     |
| 5 T   | Bromomethane                | 0.954 | 0.869 | 8.9    | 95    | 0.00     |
| 6 T   | Chloroethane                | 1.007 | 0.875 | 13.1   | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.932 | 0.894 | 4.1    | 95    | 0.00     |
| 8 T   | Diethyl Ether               | 0.268 | 0.252 | 6.0    | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.588 | 0.557 | 5.3    | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 0.527 | 0.553 | -4.9   | 101   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.033 | 0.026 | 21.2   | 97    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.545 | 0.518 | 5.0#   | 95    | -0.01    |
| 13 T  | Acrolein                    | 0.050 | 0.035 | 30.0#  | 86    | 0.00     |
| 14 T  | Allyl chloride              | 0.673 | 0.624 | 7.3    | 94    | 0.00     |
| 15 T  | Acrylonitrile               | 0.115 | 0.108 | 6.1    | 97    | 0.00     |
| 16 T  | Acetone                     | 0.120 | 0.124 | -3.3   | 114   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.834 | 1.657 | 9.7    | 92    | 0.00     |
| 18 T  | Methyl Acetate              | 0.338 | 0.443 | -31.1# | 101   | -0.01    |
| 19 T  | Methyl tert-butyl Ether     | 1.158 | 1.130 | 2.4    | 101   | 0.00     |
| 20 T  | Methylene Chloride          | 0.695 | 0.630 | 9.4    | 97    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.641 | 0.620 | 3.3    | 97    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.484 | 1.392 | 6.2    | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.696 | 0.546 | 21.6   | 96    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.051 | 1.023 | 2.7    | 98    | 0.00     |
| 25 T  | 2-Butanone                  | 0.155 | 0.144 | 7.1    | 105   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.881 | 0.873 | 0.9    | 97    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.704 | 0.688 | 2.3    | 99    | 0.00     |
| 28 T  | Bromochloromethane          | 0.416 | 0.397 | 4.6    | 90    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.080 | 0.076 | 5.0    | 98    | 0.00     |
| 30 C  | Chloroform                  | 1.112 | 1.079 | 3.0#   | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 0.915 | 0.827 | 9.6    | 90    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.948 | 0.939 | 0.9    | 99    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.541 | 0.489 | 9.6    | 94    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 90    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.318 | 0.321 | -0.9   | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.493 | 0.498 | -1.0   | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.173 | 0.162 | 6.4    | 101   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.489 | 0.506 | -3.5   | 98    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.586 | 0.615 | -4.9   | 96    | 0.00     |
| 40 TM | Benzene                     | 1.426 | 1.484 | -4.1   | 100   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.090 | 0.081 | 10.0   | 87    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.369 | 0.354 | 4.1    | 98    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.320 | 0.310 | 3.1    | 95    | 0.00     |
| 44 TM | Trichloroethene             | 0.364 | 0.396 | -8.8   | 105   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.350 | 0.358 | -2.3#  | 101   | 0.00     |
| 46 T  | Dibromomethane              | 0.197 | 0.206 | -4.6   | 104   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.487 | 0.506 | -3.9   | 100   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.170 | 0.174 | -2.4   | 91    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

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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   | 107   | 0.00     |
| 50 S  | Toluene-d8                  | 1.271 | 1.262 | 0.7   | 98    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.170 | 0.165 | 2.9   | 97    | 0.00     |
| 52 CM | Toluene                     | 0.902 | 0.951 | -5.4# | 100   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.445 | 0.446 | -0.2  | 96    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.539 | 0.547 | -1.5  | 99    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.265 | 0.273 | -3.0  | 103   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.245 | 0.217 | 11.4  | 101   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.451 | 0.449 | 0.4   | 100   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.144 | 0.120 | 16.7  | 74    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.128 | 0.127 | 0.8   | 103   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.319 | 0.333 | -4.4  | 103   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.249 | 0.258 | -3.6  | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.370 | 0.363 | 1.9   | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.316 | 0.339 | -7.3  | 103   | 0.00     |
| 65 PM | Chlorobenzene               | 1.005 | 1.087 | -8.2  | 105   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.369 | 0.395 | -7.0  | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.801 | 1.920 | -6.6# | 99    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.703 | 0.771 | -9.7  | 99    | 0.00     |
| 69 T  | o-Xylene                    | 0.641 | 0.686 | -7.0  | 99    | 0.00     |
| 70 T  | Styrene                     | 1.046 | 1.076 | -2.9  | 102   | 0.00     |
| 71 P  | Bromoform                   | 0.194 | 0.214 | -10.3 | 112   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.357 | 3.493 | -4.1  | 100   | 0.00     |
| 74 T  | N-amyl acetate              | 0.635 | 0.542 | 14.6  | 93    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.666 | 0.625 | 6.2   | 103   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.424 | 0.405 | 4.5   | 114   | 0.00     |
| 77 T  | Bromobenzene                | 0.789 | 0.827 | -4.8  | 106   | 0.00     |
| 78 T  | n-propylbenzene             | 4.184 | 4.273 | -2.1  | 99    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.241 | 2.227 | 0.6   | 99    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.788 | 2.951 | -5.8  | 102   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.204 | 0.188 | 7.8   | 97    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.407 | 2.387 | 0.8   | 99    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.351 | 2.540 | -8.0  | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.829 | 2.986 | -5.5  | 101   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.646 | 3.737 | -2.5  | 101   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.106 | 3.337 | -7.4  | 100   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.684 | 1.696 | -0.7  | 101   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.655 | 1.699 | -2.7  | 104   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.994 | 3.122 | -4.3  | 98    | 0.00     |
| 90 T  | Hexachloroethane            | 0.638 | 0.637 | 0.2   | 102   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.414 | 1.456 | -3.0  | 105   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.087 | 0.079 | 9.2   | 96    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.831 | 0.879 | -5.8  | 104   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.434 | 0.475 | -9.4  | 106   | 0.00     |
| 95 T  | Naphthalene                 | 1.542 | 1.599 | -3.7  | 106   | 0.00     |

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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 | 0.704 | 0.751 | -6.7 | 105   | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6