

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY112223\  
 Data File : VY016472.D  
 Acq On : 22 Nov 2023 19:04  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 23 04:10:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110823S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 09 00:45:52 2023  
 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   | 81    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.490 | 0.473 | 3.5   | 84    | 0.00     |
| 3 P   | Chloromethane               | 0.573 | 0.525 | 8.4   | 79    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.617 | 0.570 | 7.6#  | 79    | 0.00     |
| 5 T   | Bromomethane                | 0.405 | 0.423 | -4.4  | 90    | 0.00     |
| 6 T   | Chloroethane                | 0.393 | 0.374 | 4.8   | 81    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.897 | 0.962 | -7.2  | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 0.268 | 0.281 | -4.9  | 86    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.540 | 0.549 | -1.7  | 86    | 0.00     |
| 10 T  | Methyl Iodide               | 0.584 | 0.656 | -12.3 | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.036 | 0.034 | 5.6   | 79    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.505 | 0.523 | -3.6# | 86    | 0.00     |
| 13 T  | Acrolein                    | 0.043 | 0.030 | 30.2# | 56    | 0.00     |
| 14 T  | Allyl chloride              | 0.717 | 0.650 | 9.3   | 73    | 0.00     |
| 15 T  | Acrylonitrile               | 0.106 | 0.106 | 0.0   | 79    | 0.00     |
| 16 T  | Acetone                     | 0.076 | 0.073 | 3.9   | 82    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.525 | 1.557 | -2.1  | 85    | 0.00     |
| 18 T  | Methyl Acetate              | 0.402 | 0.397 | 1.2   | 79    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.223 | 1.270 | -3.8  | 83    | 0.00     |
| 20 T  | Methylene Chloride          | 0.610 | 0.651 | -6.7  | 96    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.582 | 0.622 | -6.9  | 90    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.545 | 1.445 | 6.5   | 75    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.749 | 0.680 | 9.2   | 71    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.953 | 0.965 | -1.3  | 83    | -0.01    |
| 25 T  | 2-Butanone                  | 0.132 | 0.121 | 8.3   | 74    | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 0.868 | 0.852 | 1.8   | 81    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.627 | 0.684 | -9.1  | 90    | 0.00     |
| 28 T  | Bromochloromethane          | 0.353 | 0.387 | -9.6  | 90    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.088 | 0.082 | 6.8   | 74    | 0.00     |
| 30 C  | Chloroform                  | 0.992 | 1.079 | -8.8# | 90    | 0.00     |
| 31 T  | Cyclohexane                 | 0.900 | 0.801 | 11.0  | 76    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.910 | 0.989 | -8.7  | 90    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.457 | 0.472 | -3.3  | 86    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 82    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.284 | 0.323 | -13.7 | 93    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.493 | 0.499 | -1.2  | 83    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.199 | 0.186 | 6.5   | 75    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.512 | 0.577 | -12.7 | 92    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.615 | 0.621 | -1.0  | 82    | 0.00     |
| 40 TM | Benzene                     | 1.386 | 1.487 | -7.3  | 87    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.100 | 0.099 | 1.0   | 82    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.359 | 0.390 | -8.6  | 87    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.385 | 0.354 | 8.1   | 72    | 0.00     |
| 44 TM | Trichloroethene             | 0.398 | 0.448 | -12.6 | 92    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.333 | 0.347 | -4.2# | 83    | 0.00     |
| 46 T  | Dibromomethane              | 0.180 | 0.201 | -11.7 | 88    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.464 | 0.510 | -9.9  | 88    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.213 | 0.201 | 5.6   | 73    | 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) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0    | 88    | -0.01    |
| 50 S  | Toluene-d8                  | 1.152 | 1.205 | -4.6   | 86    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.195 | 0.181 | 7.2    | 73    | 0.00     |
| 52 CM | Toluene                     | 0.876 | 0.970 | -10.7# | 89    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.449 | 0.480 | -6.9   | 84    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.537 | 0.583 | -8.6   | 86    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.249 | 0.279 | -12.0  | 89    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.235 | 0.258 | -9.8   | 84    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.424 | 0.464 | -9.4   | 86    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.159 | 0.174 | -9.4   | 80    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.145 | 0.125 | 13.8   | 72    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.311 | 0.372 | -19.6  | 94    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.237 | 0.270 | -13.9  | 90    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.374 | 0.417 | -11.5  | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 84    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.449 | 0.534 | -18.9  | 99    | 0.00     |
| 65 PM | Chlorobenzene               | 1.068 | 1.157 | -8.3   | 91    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.394 | 0.445 | -12.9  | 94    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.920 | 2.043 | -6.4#  | 88    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.728 | 0.793 | -8.9   | 90    | 0.00     |
| 69 T  | o-Xylene                    | 0.676 | 0.746 | -10.4  | 89    | 0.00     |
| 70 T  | Styrene                     | 0.968 | 1.094 | -13.0  | 92    | 0.00     |
| 71 P  | Bromoform                   | 0.204 | 0.240 | -17.6  | 95    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 89    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.049 | 4.164 | -2.8   | 90    | 0.00     |
| 74 T  | N-amyl acetate              | 0.813 | 0.679 | 16.5   | 70    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.650 | 0.638 | 1.8    | 86    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.480 | 0.493 | -2.7   | 96    | 0.00     |
| 77 T  | Bromobenzene                | 0.915 | 0.999 | -9.2   | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 4.785 | 4.788 | -0.1   | 88    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.637 | 2.695 | -2.2   | 89    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.264 | 3.418 | -4.7   | 91    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.221 | 0.211 | 4.5    | 84    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.725 | 2.807 | -3.0   | 91    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.875 | 2.980 | -3.7   | 90    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.214 | 3.391 | -5.5   | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.108 | 4.182 | -1.8   | 89    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.537 | 3.739 | -5.7   | 92    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.761 | 1.891 | -7.4   | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.721 | 1.855 | -7.8   | 95    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.267 | 3.302 | -1.1   | 87    | 0.00     |
| 90 T  | Hexachloroethane            | 0.682 | 0.730 | -7.0   | 95    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.509 | 1.674 | -10.9  | 98    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.103 | 0.100 | 2.9    | 89    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.881 | 1.017 | -15.4  | 102   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.504 | 0.590 | -17.1  | 104   | 0.00     |
| 95 T  | Naphthalene                 | 1.575 | 1.808 | -14.8  | 100   | 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 | 0.728 | 0.850 | -16.8 | 106   | 0.00     |

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