

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY072423\  
 Data File : VY014762.D  
 Acq On : 24 Jul 2023 10:39  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 24 13:00:08 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y071323S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 14 02:09:50 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   | 74    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.407 | 0.320 | 21.4  | 61    | 0.00     |
| 3 P   | Chloromethane               | 0.458 | 0.455 | 0.7   | 75    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.512 | 0.508 | 0.8#  | 72    | 0.00     |
| 5 T   | Bromomethane                | 0.338 | 0.308 | 8.9   | 68    | 0.00     |
| 6 T   | Chloroethane                | 0.320 | 0.336 | -5.0  | 76    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.860 | 0.783 | 9.0   | 66    | 0.00     |
| 8 T   | Diethyl Ether               | 0.320 | 0.302 | 5.6   | 69    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.527 | 0.470 | 10.8  | 64    | 0.00     |
| 10 T  | Methyl Iodide               | 0.493 | 0.557 | -13.0 | 76    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.125 | 0.106 | 15.2  | 70    | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 0.492 | 0.440 | 10.6# | 64    | 0.00     |
| 13 T  | Acrolein                    | 0.060 | 0.047 | 21.7  | 63    | 0.00     |
| 14 T  | Allyl chloride              | 0.874 | 0.751 | 14.1  | 62    | 0.00     |
| 15 T  | Acrylonitrile               | 0.176 | 0.188 | -6.8  | 77    | 0.00     |
| 16 T  | Acetone                     | 0.181 | 0.192 | -6.1  | 73    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.410 | 1.160 | 17.7  | 61    | 0.00     |
| 18 T  | Methyl Acetate              | 0.693 | 0.755 | -8.9  | 79    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.599 | 1.589 | 0.6   | 72    | 0.00     |
| 20 T  | Methylene Chloride          | 0.656 | 0.583 | 11.1  | 71    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.559 | 0.501 | 10.4  | 65    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.777 | 1.632 | 8.2   | 66    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.064 | 1.033 | 2.9   | 69    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.017 | 0.929 | 8.7   | 65    | 0.00     |
| 25 T  | 2-Butanone                  | 0.264 | 0.285 | -8.0  | 78    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.969 | 0.851 | 12.2  | 64    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.650 | 0.610 | 6.2   | 67    | 0.00     |
| 28 T  | Bromochloromethane          | 0.438 | 0.413 | 5.7   | 73    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.163 | 0.178 | -9.2  | 81    | 0.00     |
| 30 C  | Chloroform                  | 1.049 | 0.991 | 5.5#  | 68    | 0.00     |
| 31 T  | Cyclohexane                 | 0.946 | 0.746 | 21.1  | 60    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.944 | 0.870 | 7.8   | 67    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.570 | 0.576 | -1.1  | 76    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 74    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.318 | 0.321 | -0.9  | 74    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.476 | 0.428 | 10.1  | 64    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.328 | 0.355 | -8.2  | 81    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.503 | 0.467 | 7.2   | 66    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.620 | 0.522 | 15.8  | 60    | 0.00     |
| 40 TM | Benzene                     | 1.354 | 1.247 | 7.9   | 66    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.169 | 0.169 | 0.0   | 75    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.429 | 0.416 | 3.0   | 69    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.624 | 0.644 | -3.2  | 74    | 0.00     |
| 44 TM | Trichloroethene             | 0.379 | 0.352 | 7.1   | 67    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.353 | 0.324 | 8.2#  | 65    | 0.00     |
| 46 T  | Dibromomethane              | 0.214 | 0.209 | 2.3   | 70    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.505 | 0.483 | 4.4   | 68    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.281 | 0.289 | -2.8  | 74    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

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 MSVOA\_Y  
 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                 | 0.003 | 0.004 | -33.3# | 76    | 0.01     |
| 50 S  | Toluene-d8                  | 1.173 | 1.142 | 2.6    | 72    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.328 | 0.365 | -11.3  | 80    | 0.00     |
| 52 CM | Toluene                     | 0.866 | 0.800 | 7.6#   | 66    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.553 | 0.522 | 5.6    | 67    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.601 | 0.557 | 7.3    | 66    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.299 | 0.298 | 0.3    | 71    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.456 | 0.460 | -0.9   | 71    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.515 | 0.502 | 2.5    | 69    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.213 | 0.221 | -3.8   | 76    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.239 | 0.270 | -13.0  | 81    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.366 | 0.362 | 1.1    | 70    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.298 | 0.295 | 1.0    | 71    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.450 | 0.421 | 6.4    | 70    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 74    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.402 | 0.380 | 5.5    | 68    | 0.00     |
| 65 PM | Chlorobenzene               | 1.065 | 0.997 | 6.4    | 67    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.402 | 0.392 | 2.5    | 69    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.924 | 1.764 | 8.3#   | 65    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.734 | 0.676 | 7.9    | 66    | 0.00     |
| 69 T  | o-Xylene                    | 0.715 | 0.663 | 7.3    | 66    | 0.00     |
| 70 T  | Styrene                     | 1.206 | 1.134 | 6.0    | 66    | 0.00     |
| 71 P  | Bromoform                   | 0.272 | 0.287 | -5.5   | 74    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 76    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.915 | 3.480 | 11.1   | 66    | 0.00     |
| 74 T  | N-amyl acetate              | 1.311 | 1.293 | 1.4    | 72    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.893 | 0.885 | 0.9    | 74    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.631 | 0.655 | -3.8   | 77    | 0.00     |
| 77 T  | Bromobenzene                | 0.894 | 0.837 | 6.4    | 68    | 0.00     |
| 78 T  | n-propylbenzene             | 4.718 | 4.164 | 11.7   | 64    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.717 | 2.398 | 11.7   | 65    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.270 | 2.920 | 10.7   | 65    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.326 | 0.316 | 3.1    | 70    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.799 | 2.479 | 11.4   | 65    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.900 | 2.595 | 10.5   | 65    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.209 | 2.873 | 10.5   | 65    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.255 | 3.785 | 11.0   | 65    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.474 | 3.140 | 9.6    | 65    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.739 | 1.622 | 6.7    | 68    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.743 | 1.624 | 6.8    | 68    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.380 | 2.960 | 12.4   | 63    | 0.00     |
| 90 T  | Hexachloroethane            | 0.714 | 0.632 | 11.5   | 64    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.594 | 1.486 | 6.8    | 68    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.171 | 0.178 | -4.1   | 78    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.012 | 0.953 | 5.8    | 67    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.556 | 0.497 | 10.6   | 63    | 0.00     |
| 95 T  | Naphthalene                 | 2.357 | 2.441 | -3.6   | 74    | 0.00     |

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Quant Title : SW846 8260  
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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 | 0.899 | 0.867 | 3.6  | 69    | 0.00     |

(#) = Out of Range

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