

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY102224\  
 Data File : VY019983.D  
 Acq On : 22 Oct 2024 16:44  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 23 01:31:57 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100924S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 16 05:44:48 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    | 74    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.465 | 0.375 | 19.4   | 61    | 0.00     |
| 3 P   | Chloromethane               | 0.606 | 0.552 | 8.9    | 66    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.667 | 0.665 | 0.3#   | 71    | 0.00     |
| 5 T   | Bromomethane                | 0.422 | 0.428 | -1.4   | 73    | 0.00     |
| 6 T   | Chloroethane                | 0.448 | 0.474 | -5.8   | 77    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.992 | 1.016 | -2.4   | 75    | 0.00     |
| 8 T   | Diethyl Ether               | 0.301 | 0.314 | -4.3   | 74    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.577 | 0.582 | -0.9   | 74    | 0.00     |
| 10 T  | Methyl Iodide               | 0.584 | 0.528 | 9.6    | 62    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.058 | 0.050 | 13.8   | 74    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.536 | 0.508 | 5.2#   | 68    | 0.00     |
| 13 T  | Acrolein                    | 0.045 | 0.019 | 57.8#  | 36#   | 0.00     |
| 14 T  | Allyl chloride              | 0.968 | 0.997 | -3.0   | 73    | 0.00     |
| 15 T  | Acrylonitrile               | 0.138 | 0.155 | -12.3  | 80    | 0.00     |
| 16 T  | Acetone                     | 0.160 | 0.177 | -10.6  | 77    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.438 | 1.136 | 21.0   | 54    | 0.00     |
| 18 T  | Methyl Acetate              | 0.345 | 0.400 | -15.9  | 84    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.541 | 1.684 | -9.3   | 79    | 0.00     |
| 20 T  | Methylene Chloride          | 0.647 | 0.638 | 1.4    | 76    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.584 | 0.565 | 3.3    | 69    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.108 | 2.379 | -12.9  | 81    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.209 | 1.328 | -9.8   | 77    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.172 | 1.271 | -8.4   | 78    | 0.00     |
| 25 T  | 2-Butanone                  | 0.215 | 0.239 | -11.2  | 80    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.044 | 1.051 | -0.7   | 74    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.721 | 0.745 | -3.3   | 74    | 0.00     |
| 28 T  | Bromochloromethane          | 0.516 | 0.541 | -4.8   | 76    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.122 | 0.139 | -13.9  | 80    | 0.00     |
| 30 C  | Chloroform                  | 1.195 | 1.323 | -10.7# | 80    | 0.00     |
| 31 T  | Cyclohexane                 | 1.029 | 0.955 | 7.2    | 70    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.047 | 1.116 | -6.6   | 77    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.616 | 0.612 | 0.6    | 78    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 77    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.330 | 0.321 | 2.7    | 77    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.475 | 0.474 | 0.2    | 74    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.248 | 0.273 | -10.1  | 81    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.510 | 0.520 | -2.0   | 76    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.599 | 0.578 | 3.5    | 71    | 0.00     |
| 40 TM | Benzene                     | 1.439 | 1.466 | -1.9   | 76    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.134 | 0.173 | -29.1# | 85    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.413 | 0.442 | -7.0   | 79    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.505 | 0.544 | -7.7   | 80    | 0.00     |
| 44 TM | Trichloroethene             | 0.348 | 0.338 | 2.9    | 71    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.360 | 0.380 | -5.6#  | 80    | 0.00     |
| 46 T  | Dibromomethane              | 0.197 | 0.204 | -3.6   | 77    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.522 | 0.564 | -8.0   | 80    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.222 | 0.249 | -12.2  | 81    | 0.00     |

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 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
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 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   | 78    | 0.00     |
| 50 S  | Toluene-d8                  | 1.218 | 1.139 | 6.5   | 74    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.258 | 0.294 | -14.0 | 84    | 0.00     |
| 52 CM | Toluene                     | 0.898 | 0.936 | -4.2# | 77    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.470 | 0.495 | -5.3  | 77    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.554 | 0.577 | -4.2  | 77    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.259 | 0.275 | -6.2  | 79    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.372 | 0.416 | -11.8 | 79    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.455 | 0.486 | -6.8  | 79    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.173 | 0.196 | -13.3 | 88    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.184 | 0.212 | -15.2 | 83    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.333 | 0.351 | -5.4  | 79    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.234 | 0.246 | -5.1  | 77    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.440 | 0.434 | 1.4   | 78    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 79    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.356 | 0.332 | 6.7   | 71    | 0.00     |
| 65 PM | Chlorobenzene               | 1.144 | 1.144 | 0.0   | 77    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.387 | 0.392 | -1.3  | 77    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.077 | 2.128 | -2.5# | 77    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.767 | 0.775 | -1.0  | 77    | 0.00     |
| 69 T  | o-Xylene                    | 0.737 | 0.761 | -3.3  | 78    | 0.00     |
| 70 T  | Styrene                     | 1.244 | 1.292 | -3.9  | 78    | 0.00     |
| 71 P  | Bromoform                   | 0.207 | 0.212 | -2.4  | 76    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 82    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.206 | 4.122 | 2.0   | 79    | 0.00     |
| 74 T  | N-amyl acetate              | 1.114 | 1.164 | -4.5  | 81    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.747 | 0.773 | -3.5  | 83    | -0.01    |
| 76 T  | 1,2,3-Trichloropropane      | 0.979 | 0.475 | 51.5# | 39#   | 0.00     |
| 77 T  | Bromobenzene                | 0.892 | 0.841 | 5.7   | 76    | 0.00     |
| 78 T  | n-propylbenzene             | 5.082 | 5.074 | 0.2   | 80    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.913 | 2.858 | 1.9   | 79    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.396 | 3.320 | 2.2   | 78    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.243 | 0.232 | 4.5   | 76    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.979 | 2.974 | 0.2   | 81    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.043 | 3.042 | 0.0   | 80    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.367 | 3.328 | 1.2   | 79    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.546 | 4.578 | -0.7  | 80    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.691 | 3.688 | 0.1   | 79    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.802 | 1.740 | 3.4   | 78    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.771 | 1.672 | 5.6   | 76    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.605 | 3.707 | -2.8  | 79    | 0.00     |
| 90 T  | Hexachloroethane            | 0.719 | 0.717 | 0.3   | 80    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.584 | 1.536 | 3.0   | 78    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.119 | 0.117 | 1.7   | 80    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.888 | 0.854 | 3.8   | 73    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.494 | 0.456 | 7.7   | 71    | 0.00     |
| 95 T  | Naphthalene                 | 1.675 | 1.704 | -1.7  | 76    | 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 | 0.751 | 0.723 | 3.7  | 72    | 0.00     |

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