

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122022\  
 Data File : VY011936.D  
 Acq On : 20 Dec 2022 20:40  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 21 00:11:22 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122022S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 20 12:37:37 2022  
 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   | 91    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.377 | 0.395 | -4.8  | 81    | 0.00     |
| 3 P   | Chloromethane               | 0.445 | 0.441 | 0.9   | 84    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.491 | 0.475 | 3.3#  | 82    | 0.00     |
| 5 T   | Bromomethane                | 0.349 | 0.336 | 3.7   | 86    | 0.00     |
| 6 T   | Chloroethane                | 0.321 | 0.304 | 5.3   | 82    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.859 | 0.819 | 4.7   | 82    | 0.00     |
| 8 T   | Diethyl Ether               | 0.265 | 0.259 | 2.3   | 85    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.473 | 0.458 | 3.2   | 85    | 0.00     |
| 10 T  | Methyl Iodide               | 0.654 | 0.643 | 1.7   | 80    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.065 | 0.046 | 29.2# | 84    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.473 | 0.461 | 2.5#  | 84    | 0.00     |
| 13 T  | Acrolein                    | 0.047 | 0.041 | 12.8  | 87    | 0.00     |
| 14 T  | Allyl chloride              | 0.697 | 0.678 | 2.7   | 84    | 0.00     |
| 15 T  | Acrylonitrile               | 0.123 | 0.124 | -0.8  | 86    | 0.00     |
| 16 T  | Acetone                     | 0.137 | 0.111 | 19.0  | 62    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.509 | 1.460 | 3.2   | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 0.348 | 0.337 | 3.2   | 86    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.214 | 1.233 | -1.6  | 86    | 0.00     |
| 20 T  | Methylene Chloride          | 0.701 | 0.590 | 15.8  | 88    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.538 | 0.522 | 3.0   | 83    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.372 | 1.417 | -3.3  | 88    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.789 | 0.834 | -5.7  | 87    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.892 | 0.879 | 1.5   | 87    | 0.00     |
| 25 T  | 2-Butanone                  | 0.168 | 0.154 | 8.3   | 74    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.873 | 0.798 | 8.6   | 81    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.581 | 0.584 | -0.5  | 87    | 0.00     |
| 28 T  | Bromochloromethane          | 0.245 | 0.253 | -3.3  | 96    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.095 | 0.100 | -5.3  | 86    | 0.00     |
| 30 C  | Chloroform                  | 0.961 | 0.945 | 1.7#  | 87    | 0.00     |
| 31 T  | Cyclohexane                 | 0.848 | 0.786 | 7.3   | 83    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.914 | 0.881 | 3.6   | 85    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.504 | 0.498 | 1.2   | 89    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.301 | 0.299 | 0.7   | 89    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.483 | 0.458 | 5.2   | 83    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.217 | 0.218 | -0.5  | 89    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.558 | 0.534 | 4.3   | 85    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.581 | 0.569 | 2.1   | 84    | 0.00     |
| 40 TM | Benzene                     | 1.382 | 1.343 | 2.8   | 86    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.105 | 0.131 | -24.8 | 102   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.398 | 0.397 | 0.3   | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.396 | 0.397 | -0.3  | 86    | 0.00     |
| 44 TM | Trichloroethene             | 0.389 | 0.372 | 4.4   | 86    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.319 | 0.311 | 2.5#  | 87    | 0.00     |
| 46 T  | Dibromomethane              | 0.184 | 0.182 | 1.1   | 87    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.467 | 0.465 | 0.4   | 88    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.183 | 0.192 | -4.9  | 90    | 0.00     |

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|       | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0  | 88    | 0.00     |
| 50 S  | Toluene-d8                  | 1.221 | 1.213 | 0.7  | 88    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.211 | 0.216 | -2.4 | 86    | 0.00     |
| 52 CM | Toluene                     | 0.880 | 0.864 | 1.8# | 86    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.471 | 0.463 | 1.7  | 86    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.530 | 0.530 | 0.0  | 87    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.261 | 0.260 | 0.4  | 89    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.330 | 0.344 | -4.2 | 87    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.436 | 0.441 | -1.1 | 87    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.127 | 0.130 | -2.4 | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.155 | 0.153 | 1.3  | 79    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.329 | 0.332 | -0.9 | 87    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.244 | 0.247 | -1.2 | 89    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.411 | 0.401 | 2.4  | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.438 | 0.418 | 4.6  | 85    | 0.00     |
| 65 PM | Chlorobenzene               | 1.038 | 0.996 | 4.0  | 87    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.386 | 0.376 | 2.6  | 87    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.877 | 1.815 | 3.3# | 85    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.730 | 0.707 | 3.2  | 85    | 0.00     |
| 69 T  | o-Xylene                    | 0.679 | 0.672 | 1.0  | 87    | 0.00     |
| 70 T  | Styrene                     | 1.140 | 1.132 | 0.7  | 86    | 0.00     |
| 71 P  | Bromoform                   | 0.229 | 0.226 | 1.3  | 88    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.710 | 3.660 | 1.3  | 86    | 0.00     |
| 74 T  | N-amyl acetate              | 0.761 | 0.772 | -1.4 | 86    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.619 | 0.614 | 0.8  | 88    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.622 | 0.502 | 19.3 | 71    | 0.00     |
| 77 T  | Bromobenzene                | 0.858 | 0.845 | 1.5  | 88    | 0.00     |
| 78 T  | n-propylbenzene             | 4.460 | 4.338 | 2.7  | 84    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.507 | 2.410 | 3.9  | 85    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.177 | 3.137 | 1.3  | 86    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.227 | 0.222 | 2.2  | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.594 | 2.519 | 2.9  | 85    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.692 | 2.661 | 1.2  | 85    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.125 | 3.074 | 1.6  | 85    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.020 | 3.893 | 3.2  | 84    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.392 | 3.318 | 2.2  | 84    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.726 | 1.654 | 4.2  | 85    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.716 | 1.630 | 5.0  | 85    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.071 | 2.983 | 2.9  | 84    | 0.00     |
| 90 T  | Hexachloroethane            | 0.647 | 0.626 | 3.2  | 86    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.505 | 1.468 | 2.5  | 86    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.106 | 0.107 | -0.9 | 87    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.885 | 0.882 | 0.3  | 84    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.572 | 0.546 | 4.5  | 84    | 0.00     |
| 95 T  | Naphthalene                 | 1.644 | 1.720 | -4.6 | 85    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.749 | 0.764 | -2.0 | 86    | 0.00     |

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