

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY030122\  
 Data File : VY007679.D  
 Acq On : 01 Mar 2022 20:06  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 02 07:53:24 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022822S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 01 09:08:03 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   | 88    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.373 | 0.309 | 17.2  | 84    | 0.00     |
| 3 P   | Chloromethane               | 0.619 | 0.539 | 12.9  | 89    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.750 | 0.698 | 6.9#  | 87    | 0.00     |
| 5 T   | Bromomethane                | 0.606 | 0.605 | 0.2   | 103   | 0.00     |
| 6 T   | Chloroethane                | 0.575 | 0.540 | 6.1   | 92    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.857 | 0.802 | 6.4   | 90    | 0.00     |
| 8 T   | Diethyl Ether               | 0.276 | 0.268 | 2.9   | 89    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.523 | 0.499 | 4.6   | 89    | 0.00     |
| 10 T  | Methyl Iodide               | 0.637 | 0.616 | 3.3   | 89    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.045 | 0.045 | 0.0   | 87    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.464 | 0.440 | 5.2#  | 89    | 0.00     |
| 13 T  | Acrolein                    | 0.046 | 0.033 | 28.3# | 77    | 0.00     |
| 14 T  | Allyl chloride              | 0.698 | 0.670 | 4.0   | 87    | 0.00     |
| 15 T  | Acrylonitrile               | 0.146 | 0.148 | -1.4  | 90    | 0.00     |
| 16 T  | Acetone                     | 0.106 | 0.103 | 2.8   | 88    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.265 | 1.109 | 12.3  | 86    | 0.00     |
| 18 T  | Methyl Acetate              | 0.367 | 0.306 | 16.6  | 86    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.441 | 1.416 | 1.7   | 88    | 0.00     |
| 20 T  | Methylene Chloride          | 0.592 | 0.555 | 6.2   | 95    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.542 | 0.521 | 3.9   | 91    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.668 | 1.689 | -1.3  | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.055 | 1.121 | -6.3  | 91    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.008 | 0.990 | 1.8   | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 0.179 | 0.185 | -3.4  | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.897 | 0.867 | 3.3   | 87    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.635 | 0.642 | -1.1  | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 0.429 | 0.390 | 9.1   | 82    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.122 | 0.126 | -3.3  | 90    | 0.00     |
| 30 C  | Chloroform                  | 1.044 | 1.058 | -1.3# | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 0.915 | 0.818 | 10.6  | 87    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.929 | 0.921 | 0.9   | 90    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.523 | 0.500 | 4.4   | 90    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.320 | 0.302 | 5.6   | 90    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.503 | 0.477 | 5.2   | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.278 | 0.270 | 2.9   | 87    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.536 | 0.522 | 2.6   | 90    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.618 | 0.580 | 6.1   | 88    | 0.00     |
| 40 TM | Benzene                     | 1.399 | 1.365 | 2.4   | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.133 | 0.140 | -5.3  | 89    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.437 | 0.434 | 0.7   | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.514 | 0.525 | -2.1  | 90    | 0.00     |
| 44 TM | Trichloroethene             | 0.389 | 0.375 | 3.6   | 89    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.362 | 0.359 | 0.8#  | 91    | 0.00     |
| 46 T  | Dibromomethane              | 0.217 | 0.217 | 0.0   | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.510 | 0.515 | -1.0  | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.223 | 0.225 | -0.9  | 90    | 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                 | 0.003 | 0.003 | 0.0  | 85    | 0.00     |
| 50 S  | Toluene-d8                  | 1.177 | 1.096 | 6.9  | 90    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.275 | 0.285 | -3.6 | 90    | 0.00     |
| 52 CM | Toluene                     | 0.905 | 0.889 | 1.8# | 89    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.523 | 0.528 | -1.0 | 89    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.578 | 0.580 | -0.3 | 90    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.296 | 0.302 | -2.0 | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.392 | 0.404 | -3.1 | 89    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.500 | 0.509 | -1.8 | 91    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.214 | 0.213 | 0.5  | 84    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.185 | 0.195 | -5.4 | 89    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.352 | 0.365 | -3.7 | 91    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.282 | 0.282 | 0.0  | 88    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.379 | 0.352 | 7.1  | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.371 | 0.346 | 6.7  | 88    | 0.00     |
| 65 PM | Chlorobenzene               | 1.089 | 1.056 | 3.0  | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.407 | 0.416 | -2.2 | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.964 | 1.891 | 3.7# | 90    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.754 | 0.738 | 2.1  | 90    | 0.00     |
| 69 T  | o-Xylene                    | 0.714 | 0.706 | 1.1  | 91    | 0.00     |
| 70 T  | Styrene                     | 1.196 | 1.191 | 0.4  | 90    | 0.00     |
| 71 P  | Bromoform                   | 0.254 | 0.259 | -2.0 | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 90    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.895 | 3.840 | 1.4  | 90    | 0.00     |
| 74 T  | N-amyl acetate              | 1.037 | 1.054 | -1.6 | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.817 | 0.834 | -2.1 | 91    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.558 | 0.563 | -0.9 | 90    | 0.00     |
| 77 T  | Bromobenzene                | 0.897 | 0.897 | 0.0  | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 4.700 | 4.620 | 1.7  | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.515 | 2.493 | 0.9  | 89    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.115 | 3.082 | 1.1  | 88    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.273 | 0.271 | 0.7  | 88    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.587 | 2.563 | 0.9  | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.865 | 2.861 | 0.1  | 89    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.068 | 3.042 | 0.8  | 89    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.238 | 4.193 | 1.1  | 88    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.500 | 3.482 | 0.5  | 88    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.785 | 1.776 | 0.5  | 90    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.762 | 1.722 | 2.3  | 89    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.308 | 3.223 | 2.6  | 86    | 0.00     |
| 90 T  | Hexachloroethane            | 0.664 | 0.666 | -0.3 | 90    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.585 | 1.583 | 0.1  | 89    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.124 | 0.123 | 0.8  | 89    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.004 | 0.973 | 3.1  | 86    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.593 | 0.564 | 4.9  | 84    | 0.00     |
| 95 T  | Naphthalene                 | 2.042 | 2.044 | -0.1 | 87    | 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 | 0.895 | 0.863 | 3.6  | 86    | 0.00     |

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