

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY112724\  
 Data File : VY020455.D  
 Acq On : 27 Nov 2024 10:28  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 28 00:56:15 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y111924S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 20 04:38:24 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    | 73    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.485 | 0.590 | -21.6  | 95    | 0.00     |
| 3 P   | Chloromethane               | 0.735 | 0.585 | 20.4   | 63    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.666 | 0.579 | 13.1#  | 68    | 0.00     |
| 5 T   | Bromomethane                | 0.333 | 0.338 | -1.5   | 79    | 0.01     |
| 6 T   | Chloroethane                | 0.388 | 0.352 | 9.3    | 69    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.925 | 1.039 | -12.3  | 81    | 0.01     |
| 8 T   | Diethyl Ether               | 0.292 | 0.300 | -2.7   | 72    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.551 | 0.579 | -5.1   | 71    | 0.01     |
| 10 T  | Methyl Iodide               | 0.738 | 0.713 | 3.4    | 63    | 0.01     |
| 11 T  | Tert butyl alcohol          | 0.044 | 0.038 | 13.6   | 76    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.545 | 0.572 | -5.0#  | 71    | 0.01     |
| 13 T  | Acrolein                    | 0.036 | 0.039 | -8.3   | 78    | 0.00     |
| 14 T  | Allyl chloride              | 1.055 | 1.023 | 3.0    | 79    | 0.00     |
| 15 T  | Acrylonitrile               | 0.129 | 0.132 | -2.3   | 78    | 0.00     |
| 16 T  | Acetone                     | 0.138 | 0.160 | -15.9  | 73    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.838 | 1.910 | -3.9   | 67    | 0.01     |
| 18 T  | Methyl Acetate              | 0.321 | 0.327 | -1.9   | 79    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.417 | 1.511 | -6.6   | 79    | 0.01     |
| 20 T  | Methylene Chloride          | 0.583 | 0.598 | -2.6   | 76    | 0.02     |
| 21 T  | trans-1,2-Dichloroethene    | 0.606 | 0.640 | -5.6   | 78    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.079 | 2.005 | 3.6    | 73    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.162 | 1.133 | 2.5    | 72    | 0.01     |
| 24 P  | 1,1-Dichloroethane          | 1.173 | 1.179 | -0.5   | 76    | 0.00     |
| 25 T  | 2-Butanone                  | 0.177 | 0.196 | -10.7  | 80    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.970 | 1.091 | -12.5  | 83    | 0.01     |
| 27 T  | cis-1,2-Dichloroethene      | 0.667 | 0.720 | -7.9   | 77    | 0.00     |
| 28 T  | Bromochloromethane          | 0.494 | 0.419 | 15.2   | 60    | 0.01     |
| 29 T  | Tetrahydrofuran             | 0.106 | 0.106 | 0.0    | 73    | 0.00     |
| 30 C  | Chloroform                  | 1.133 | 1.191 | -5.1#  | 70    | 0.01     |
| 31 T  | Cyclohexane                 | 1.071 | 1.061 | 0.9    | 75    | 0.01     |
| 32 T  | 1,1,1-Trichloroethane       | 0.995 | 1.136 | -14.2  | 83    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.574 | 0.524 | 8.7    | 60    | 0.01     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 63    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.321 | 0.298 | 7.2    | 58    | 0.01     |
| 36 T  | 1,1-Dichloropropene         | 0.490 | 0.555 | -13.3  | 78    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.224 | 0.241 | -7.6   | 72    | 0.01     |
| 38 T  | Carbon Tetrachloride        | 0.511 | 0.663 | -29.7# | 88    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.613 | 0.711 | -16.0  | 77    | 0.00     |
| 40 TM | Benzene                     | 1.435 | 1.622 | -13.0  | 76    | 0.01     |
| 41 T  | Methacrylonitrile           | 0.128 | 0.131 | -2.3   | 71    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.387 | 0.458 | -18.3  | 80    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.436 | 0.483 | -10.8  | 72    | 0.00     |
| 44 TM | Trichloroethene             | 0.340 | 0.402 | -18.2  | 80    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.342 | 0.378 | -10.5# | 75    | 0.01     |
| 46 T  | Dibromomethane              | 0.175 | 0.199 | -13.7  | 73    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.484 | 0.560 | -15.7  | 72    | 0.01     |
| 48 T  | Methyl methacrylate         | 0.209 | 0.236 | -12.9  | 74    | 0.00     |

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 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 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                 | 0.002 | 0.002 | 0.0    | 73    | 0.00     |
| 50 S  | Toluene-d8                  | 1.263 | 1.181 | 6.5    | 54    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.221 | 0.243 | -10.0  | 63    | 0.00     |
| 52 CM | Toluene                     | 0.877 | 1.024 | -16.8# | 76    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.458 | 0.532 | -16.2  | 75    | 0.01     |
| 54 T  | cis-1,3-Dichloropropene     | 0.524 | 0.616 | -17.6  | 77    | 0.01     |
| 55 T  | 1,1,2-Trichloroethane       | 0.233 | 0.256 | -9.9   | 74    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.350 | 0.390 | -11.4  | 70    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.419 | 0.472 | -12.6  | 72    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.166 | 0.187 | -12.7  | 76    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.157 | 0.183 | -16.6  | 68    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.300 | 0.358 | -19.3  | 74    | 0.01     |
| 61 T  | 1,2-Dibromoethane           | 0.216 | 0.243 | -12.5  | 71    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.406 | 0.396 | 2.5    | 58    | 0.01     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 62    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.360 | 0.413 | -14.7  | 78    | 0.00     |
| 65 PM | Chlorobenzene               | 1.115 | 1.257 | -12.7  | 68    | 0.01     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.372 | 0.440 | -18.3  | 74    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.057 | 2.370 | -15.2# | 72    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.741 | 0.865 | -16.7  | 76    | 0.00     |
| 69 T  | o-Xylene                    | 0.703 | 0.814 | -15.8  | 76    | 0.00     |
| 70 T  | Styrene                     | 1.167 | 1.361 | -16.6  | 75    | 0.00     |
| 71 P  | Bromoform                   | 0.194 | 0.242 | -24.7  | 80    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 69    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.236 | 4.802 | -13.4  | 77    | 0.00     |
| 74 T  | N-amyl acetate              | 1.024 | 1.075 | -5.0   | 68    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.685 | 0.735 | -7.3   | 70    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.471 | 0.545 | -15.7  | 74    | 0.00     |
| 77 T  | Bromobenzene                | 0.887 | 1.009 | -13.8  | 75    | 0.00     |
| 78 T  | n-propylbenzene             | 5.083 | 5.724 | -12.6  | 76    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.923 | 3.222 | -10.2  | 77    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.423 | 3.864 | -12.9  | 79    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.241 | 0.281 | -16.6  | 76    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.016 | 3.312 | -9.8   | 78    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.021 | 3.510 | -16.2  | 78    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.394 | 3.833 | -12.9  | 78    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.762 | 5.038 | -5.8   | 69    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.682 | 4.212 | -14.4  | 75    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.794 | 1.951 | -8.8   | 73    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.714 | 1.912 | -11.6  | 76    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.526 | 3.912 | -10.9  | 74    | 0.00     |
| 90 T  | Hexachloroethane            | 0.711 | 0.802 | -12.8  | 72    | 0.01     |
| 91 T  | 1,2-Dichlorobenzene         | 1.495 | 1.666 | -11.4  | 74    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.112 | 0.115 | -2.7   | 66    | 0.01     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.904 | 0.972 | -7.5   | 75    | 0.01     |
| 94 T  | Hexachlorobutadiene         | 0.552 | 0.662 | -19.9  | 85    | 0.01     |
| 95 T  | Naphthalene                 | 1.557 | 1.686 | -8.3   | 71    | 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 | 0.773 | 0.805 | -4.1 | 74    | 0.01     |

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