

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022625\  
 Data File : VY021320.D  
 Acq On : 26 Feb 2025 10:11  
 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: Feb 27 00:33:59 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022525S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 26 02:09:13 2025  
 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   | 111   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.474 | 0.442 | 6.8   | 99    | 0.00     |
| 3 P   | Chloromethane               | 0.612 | 0.581 | 5.1   | 107   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.601 | 0.586 | 2.5#  | 103   | 0.00     |
| 5 T   | Bromomethane                | 0.399 | 0.370 | 7.3   | 106   | 0.00     |
| 6 T   | Chloroethane                | 0.373 | 0.363 | 2.7   | 103   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.908 | 0.866 | 4.6   | 102   | 0.00     |
| 8 T   | Diethyl Ether               | 0.272 | 0.270 | 0.7   | 104   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.525 | 0.496 | 5.5   | 102   | 0.00     |
| 10 T  | Methyl Iodide               | 0.553 | 0.577 | -4.3  | 100   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.044 | 0.035 | 20.5  | 97    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.503 | 0.487 | 3.2#  | 104   | 0.00     |
| 13 T  | Acrolein                    | 0.033 | 0.006 | 81.8# | 94    | 0.00     |
| 14 T  | Allyl chloride              | 0.892 | 0.896 | -0.4  | 107   | 0.00     |
| 15 T  | Acrylonitrile               | 0.120 | 0.117 | 2.5   | 101   | 0.00     |
| 16 T  | Acetone                     | 0.109 | 0.113 | -3.7  | 98    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.671 | 1.628 | 2.6   | 104   | 0.00     |
| 18 T  | Methyl Acetate              | 0.266 | 0.257 | 3.4   | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.329 | 1.308 | 1.6   | 103   | 0.00     |
| 20 T  | Methylene Chloride          | 0.588 | 0.533 | 9.4   | 101   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.554 | 0.540 | 2.5   | 104   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.846 | 1.862 | -0.9  | 105   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.103 | 1.099 | 0.4   | 102   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.040 | 1.021 | 1.8   | 104   | 0.00     |
| 25 T  | 2-Butanone                  | 0.164 | 0.162 | 1.2   | 98    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.944 | 0.929 | 1.6   | 106   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.632 | 0.633 | -0.2  | 105   | 0.00     |
| 28 T  | Bromochloromethane          | 0.460 | 0.435 | 5.4   | 106   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.107 | 0.102 | 4.7   | 99    | 0.00     |
| 30 C  | Chloroform                  | 1.054 | 1.038 | 1.5#  | 105   | 0.00     |
| 31 T  | Cyclohexane                 | 1.000 | 0.922 | 7.8   | 103   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.960 | 0.936 | 2.5   | 105   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.567 | 0.544 | 4.1   | 109   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 113   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.328 | 0.320 | 2.4   | 111   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.492 | 0.475 | 3.5   | 104   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.245 | 0.236 | 3.7   | 104   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.554 | 0.536 | 3.2   | 104   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.623 | 0.578 | 7.2   | 99    | 0.00     |
| 40 TM | Benzene                     | 1.456 | 1.415 | 2.8   | 105   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.137 | 0.117 | 14.6  | 90    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.413 | 0.396 | 4.1   | 104   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.474 | 0.455 | 4.0   | 100   | 0.00     |
| 44 TM | Trichloroethene             | 0.364 | 0.355 | 2.5   | 105   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.350 | 0.341 | 2.6#  | 104   | 0.00     |
| 46 T  | Dibromomethane              | 0.191 | 0.185 | 3.1   | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.511 | 0.494 | 3.3   | 103   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.222 | 0.215 | 3.2   | 98    | 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                 | 0.002 | 0.002 | 0.0  | 102   | 0.00     |
| 50 S  | Toluene-d8                  | 1.267 | 1.257 | 0.8  | 114   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.243 | 0.234 | 3.7  | 99    | 0.00     |
| 52 CM | Toluene                     | 0.904 | 0.892 | 1.3# | 105   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.468 | 0.468 | 0.0  | 103   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.552 | 0.543 | 1.6  | 104   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.249 | 0.236 | 5.2  | 100   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.345 | 0.351 | -1.7 | 101   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.438 | 0.431 | 1.6  | 104   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.165 | 0.155 | 6.1  | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.159 | 0.159 | 0.0  | 98    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.340 | 0.332 | 2.4  | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.236 | 0.224 | 5.1  | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.426 | 0.420 | 1.4  | 112   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 112   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.378 | 0.359 | 5.0  | 103   | 0.00     |
| 65 PM | Chlorobenzene               | 1.122 | 1.091 | 2.8  | 104   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.393 | 0.387 | 1.5  | 105   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.988 | 1.972 | 0.8# | 104   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.748 | 0.735 | 1.7  | 103   | 0.00     |
| 69 T  | o-Xylene                    | 0.701 | 0.696 | 0.7  | 103   | 0.00     |
| 70 T  | Styrene                     | 1.166 | 1.176 | -0.9 | 103   | 0.00     |
| 71 P  | Bromoform                   | 0.225 | 0.217 | 3.6  | 99    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 108   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.759 | 3.742 | 0.5  | 102   | 0.00     |
| 74 T  | N-ethyl acetate             | 0.955 | 0.978 | -2.4 | 100   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.663 | 0.639 | 3.6  | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.500 | 0.401 | 19.8 | 83    | 0.00     |
| 77 T  | Bromobenzene                | 0.874 | 0.866 | 0.9  | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 4.561 | 4.517 | 1.0  | 101   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.618 | 2.575 | 1.6  | 103   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.083 | 3.059 | 0.8  | 102   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.225 | 0.224 | 0.4  | 100   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.714 | 2.682 | 1.2  | 103   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.785 | 2.716 | 2.5  | 102   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.066 | 3.057 | 0.3  | 102   | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.068 | 3.911 | 3.9  | 100   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.397 | 3.301 | 2.8  | 100   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.730 | 1.676 | 3.1  | 101   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.709 | 1.633 | 4.4  | 101   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.196 | 3.100 | 3.0  | 98    | 0.00     |
| 90 T  | Hexachloroethane            | 0.710 | 0.671 | 5.5  | 101   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.515 | 1.469 | 3.0  | 101   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.105 | 0.099 | 5.7  | 95    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.925 | 0.884 | 4.4  | 99    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.582 | 0.531 | 8.8  | 97    | 0.00     |
| 95 T  | Naphthalene                 | 1.532 | 1.561 | -1.9 | 98    | 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 | 0.781 | 0.747 | 4.4  | 98    | 0.00     |

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