

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY010825\  
 Data File : VY020799.D  
 Acq On : 08 Jan 2025 09:48  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 09 00:15:36 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y010625S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 07 01:31:46 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    | 121   | 0.01     |
| 2 T   | Dichlorodifluoromethane     | 0.367 | 0.328 | 10.6   | 110   | 0.01     |
| 3 P   | Chloromethane               | 0.193 | 0.219 | -13.5  | 140   | 0.01     |
| 4 C   | Vinyl Chloride              | 0.215 | 0.246 | -14.4# | 136   | 0.01     |
| 5 T   | Bromomethane                | 0.153 | 0.153 | 0.0    | 125   | 0.01     |
| 6 T   | Chloroethane                | 0.132 | 0.156 | -18.2  | 141   | 0.01     |
| 7 T   | Trichlorofluoromethane      | 0.659 | 0.653 | 0.9    | 119   | 0.02     |
| 8 T   | Diethyl Ether               | 0.206 | 0.205 | 0.5    | 117   | 0.01     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.445 | 0.430 | 3.4    | 117   | 0.01     |
| 10 T  | Methyl Iodide               | 0.477 | 0.485 | -1.7   | 115   | 0.02     |
| 11 T  | Tert butyl alcohol          | 0.032 | 0.028 | 12.5   | 104   | 0.03     |
| 12 CM | 1,1-Dichloroethene          | 0.390 | 0.386 | 1.0#   | 116   | 0.02     |
| 13 T  | Acrolein                    | 0.009 | 0.006 | 33.3#  | 132   | 0.00     |
| 14 T  | Allyl chloride              | 0.563 | 0.579 | -2.8   | 123   | 0.02     |
| 15 T  | Acrylonitrile               | 0.088 | 0.090 | -2.3   | 114   | 0.02     |
| 16 T  | Acetone                     | 0.060 | 0.059 | 1.7    | 111   | 0.02     |
| 17 T  | Carbon Disulfide            | 0.846 | 0.891 | -5.3   | 118   | 0.01     |
| 18 T  | Methyl Acetate              | 0.204 | 0.218 | -6.9   | 116   | 0.01     |
| 19 T  | Methyl tert-butyl Ether     | 1.100 | 1.079 | 1.9    | 114   | 0.02     |
| 20 T  | Methylene Chloride          | 0.417 | 0.414 | 0.7    | 120   | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 0.429 | 0.422 | 1.6    | 117   | 0.02     |
| 22 T  | Diisopropyl ether           | 1.198 | 1.259 | -5.1   | 125   | 0.01     |
| 23 T  | Vinyl Acetate               | 0.661 | 0.693 | -4.8   | 120   | 0.02     |
| 24 P  | 1,1-Dichloroethane          | 0.791 | 0.783 | 1.0    | 120   | 0.02     |
| 25 T  | 2-Butanone                  | 0.099 | 0.102 | -3.0   | 113   | 0.01     |
| 26 T  | 2,2-Dichloropropane         | 0.821 | 0.772 | 6.0    | 115   | 0.02     |
| 27 T  | cis-1,2-Dichloroethene      | 0.542 | 0.533 | 1.7    | 118   | 0.02     |
| 28 T  | Bromochloromethane          | 0.213 | 0.237 | -11.3  | 113   | 0.01     |
| 29 T  | Tetrahydrofuran             | 0.063 | 0.068 | -7.9   | 118   | 0.02     |
| 30 C  | Chloroform                  | 0.902 | 0.862 | 4.4#   | 117   | 0.02     |
| 31 T  | Cyclohexane                 | 0.618 | 0.589 | 4.7    | 118   | 0.02     |
| 32 T  | 1,1,1-Trichloroethane       | 0.879 | 0.814 | 7.4    | 113   | 0.02     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.425 | 0.425 | 0.0    | 106   | 0.01     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 122   | 0.01     |
| 35 S  | Dibromofluoromethane        | 0.313 | 0.306 | 2.2    | 110   | 0.02     |
| 36 T  | 1,1-Dichloropropene         | 0.400 | 0.395 | 1.3    | 116   | 0.02     |
| 37 T  | Ethyl Acetate               | 0.159 | 0.169 | -6.3   | 120   | 0.02     |
| 38 T  | Carbon Tetrachloride        | 0.556 | 0.516 | 7.2    | 112   | 0.02     |
| 39 T  | Methylcyclohexane           | 0.490 | 0.489 | 0.2    | 117   | 0.01     |
| 40 TM | Benzene                     | 1.226 | 1.210 | 1.3    | 118   | 0.02     |
| 41 T  | Methacrylonitrile           | 0.091 | 0.090 | 1.1    | 106   | 0.01     |
| 42 TM | 1,2-Dichloroethane          | 0.335 | 0.330 | 1.5    | 115   | 0.01     |
| 43 T  | Isopropyl Acetate           | 0.323 | 0.335 | -3.7   | 117   | 0.01     |
| 44 TM | Trichloroethene             | 0.342 | 0.329 | 3.8    | 116   | 0.01     |
| 45 C  | 1,2-Dichloropropane         | 0.278 | 0.283 | -1.8#  | 122   | 0.01     |
| 46 T  | Dibromomethane              | 0.160 | 0.159 | 0.6    | 117   | 0.01     |
| 47 T  | Bromodichloromethane        | 0.457 | 0.444 | 2.8    | 116   | 0.01     |
| 48 T  | Methyl methacrylate         | 0.145 | 0.154 | -6.2   | 116   | 0.01     |

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 LabSampleId :  
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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   | 98    | 0.01     |
| 50 S  | Toluene-d8                  | 1.092 | 1.152 | -5.5  | 109   | 0.01     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.162 | 0.170 | -4.9  | 115   | 0.01     |
| 52 CM | Toluene                     | 0.812 | 0.794 | 2.2#  | 116   | 0.01     |
| 53 T  | t-1,3-Dichloropropene       | 0.407 | 0.402 | 1.2   | 113   | 0.01     |
| 54 T  | cis-1,3-Dichloropropene     | 0.472 | 0.467 | 1.1   | 117   | 0.01     |
| 55 T  | 1,1,2-Trichloroethane       | 0.228 | 0.223 | 2.2   | 118   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.288 | 0.300 | -4.2  | 117   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.372 | 0.371 | 0.3   | 116   | 0.01     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.114 | 0.127 | -11.4 | 119   | 0.01     |
| 59 T  | 2-Hexanone                  | 0.104 | 0.111 | -6.7  | 114   | 0.01     |
| 60 T  | Dibromochloromethane        | 0.331 | 0.318 | 3.9   | 113   | 0.01     |
| 61 T  | 1,2-Dibromoethane           | 0.205 | 0.204 | 0.5   | 117   | 0.01     |
| 62 S  | 4-Bromofluorobenzene        | 0.403 | 0.394 | 2.2   | 111   | 0.01     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 120   | 0.01     |
| 64 T  | Tetrachloroethene           | 0.368 | 0.349 | 5.2   | 112   | 0.01     |
| 65 PM | Chlorobenzene               | 1.105 | 1.073 | 2.9   | 116   | 0.01     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.421 | 0.397 | 5.7   | 113   | 0.01     |
| 67 C  | Ethyl Benzene               | 1.914 | 1.885 | 1.5#  | 115   | 0.01     |
| 68 T  | m/p-Xylenes                 | 0.737 | 0.719 | 2.4   | 115   | 0.01     |
| 69 T  | o-Xylene                    | 0.699 | 0.676 | 3.3   | 115   | 0.01     |
| 70 T  | Styrene                     | 1.176 | 1.152 | 2.0   | 114   | 0.01     |
| 71 P  | Bromoform                   | 0.239 | 0.229 | 4.2   | 110   | 0.01     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 118   | 0.01     |
| 73 T  | Isopropylbenzene            | 3.967 | 3.850 | 2.9   | 113   | 0.01     |
| 74 T  | N-amyl acetate              | 0.649 | 0.707 | -8.9  | 117   | 0.01     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.601 | 0.607 | -1.0  | 112   | 0.01     |
| 76 T  | 1,2,3-Trichloropropane      | 0.437 | 0.483 | -10.5 | 133   | 0.01     |
| 77 T  | Bromobenzene                | 0.915 | 0.872 | 4.7   | 112   | 0.01     |
| 78 T  | n-propylbenzene             | 4.502 | 4.473 | 0.6   | 115   | 0.01     |
| 79 T  | 2-Chlorotoluene             | 2.593 | 2.550 | 1.7   | 115   | 0.01     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.215 | 3.117 | 3.0   | 113   | 0.01     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.207 | 0.211 | -1.9  | 108   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.676 | 2.565 | 4.1   | 113   | 0.01     |
| 83 T  | tert-Butylbenzene           | 3.007 | 2.911 | 3.2   | 114   | 0.01     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.139 | 3.075 | 2.0   | 113   | 0.01     |
| 85 T  | sec-Butylbenzene            | 4.200 | 4.128 | 1.7   | 114   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.583 | 3.481 | 2.8   | 113   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.777 | 1.722 | 3.1   | 114   | 0.01     |
| 88 T  | 1,4-Dichlorobenzene         | 1.749 | 1.676 | 4.2   | 113   | 0.01     |
| 89 T  | n-Butylbenzene              | 3.108 | 3.074 | 1.1   | 114   | 0.01     |
| 90 T  | Hexachloroethane            | 0.719 | 0.678 | 5.7   | 113   | 0.01     |
| 91 T  | 1,2-Dichlorobenzene         | 1.554 | 1.477 | 5.0   | 112   | 0.01     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.097 | 0.088 | 9.3   | 105   | 0.01     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.894 | 0.887 | 0.8   | 112   | 0.01     |
| 94 T  | Hexachlorobutadiene         | 0.630 | 0.591 | 6.2   | 112   | 0.01     |
| 95 T  | Naphthalene                 | 1.472 | 1.438 | 2.3   | 108   | 0.01     |

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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 | 0.724 | 3.3  | 113   | 0.01     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6