

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY051624\  
 Data File : VY018282.D  
 Acq On : 16 May 2024 11:44  
 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: May 17 01:13:32 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y050724S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 08 01:40:14 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   | 77    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.397 | 0.387 | 2.5   | 73    | 0.00     |
| 3 P   | Chloromethane               | 0.531 | 0.542 | -2.1  | 74    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.643 | 0.668 | -3.9# | 74    | 0.00     |
| 5 T   | Bromomethane                | 0.447 | 0.428 | 4.3   | 72    | 0.00     |
| 6 T   | Chloroethane                | 0.408 | 0.435 | -6.6  | 77    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.754 | 0.743 | 1.5   | 73    | 0.00     |
| 8 T   | Diethyl Ether               | 0.248 | 0.225 | 9.3   | 69    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.480 | 0.456 | 5.0   | 70    | 0.00     |
| 10 T  | Methyl Iodide               | 0.561 | 0.520 | 7.3   | 62    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.037 | 0.034 | 8.1   | 83    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.484 | 0.467 | 3.5#  | 70    | 0.00     |
| 13 T  | Acrolein                    | 0.040 | 0.030 | 25.0# | 78    | 0.00     |
| 14 T  | Allyl chloride              | 0.615 | 0.608 | 1.1   | 72    | 0.00     |
| 15 T  | Acrylonitrile               | 0.095 | 0.094 | 1.1   | 77    | 0.00     |
| 16 T  | Acetone                     | 0.073 | 0.084 | -15.1 | 88    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.316 | 1.252 | 4.9   | 64    | 0.00     |
| 18 T  | Methyl Acetate              | 0.209 | 0.189 | 9.6   | 75    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.077 | 1.025 | 4.8   | 74    | 0.00     |
| 20 T  | Methylene Chloride          | 0.519 | 0.498 | 4.0   | 76    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.513 | 0.492 | 4.1   | 69    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.305 | 1.251 | 4.1   | 72    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.793 | 0.775 | 2.3   | 75    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.804 | 0.778 | 3.2   | 71    | 0.00     |
| 25 T  | 2-Butanone                  | 0.117 | 0.121 | -3.4  | 81    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.727 | 0.725 | 0.3   | 74    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.606 | 0.570 | 5.9   | 69    | 0.00     |
| 28 T  | Bromochloromethane          | 0.321 | 0.315 | 1.9   | 78    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.077 | 0.073 | 5.2   | 77    | 0.00     |
| 30 C  | Chloroform                  | 0.839 | 0.804 | 4.2#  | 71    | 0.00     |
| 31 T  | Cyclohexane                 | 0.763 | 0.690 | 9.6   | 68    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.752 | 0.745 | 0.9   | 73    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.368 | 0.405 | -10.1 | 104   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 78    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.263 | 0.282 | -7.2  | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.377 | 0.362 | 4.0   | 70    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.159 | 0.159 | 0.0   | 77    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.412 | 0.407 | 1.2   | 72    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.543 | 0.509 | 6.3   | 66    | 0.00     |
| 40 TM | Benzene                     | 1.212 | 1.163 | 4.0   | 70    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.092 | 0.082 | 10.9  | 65    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.264 | 0.261 | 1.1   | 75    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.325 | 0.319 | 1.8   | 78    | 0.00     |
| 44 TM | Trichloroethene             | 0.330 | 0.314 | 4.8   | 69    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.265 | 0.250 | 5.7#  | 69    | 0.00     |
| 46 T  | Dibromomethane              | 0.152 | 0.146 | 3.9   | 74    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.376 | 0.365 | 2.9   | 72    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.149 | 0.147 | 1.3   | 78    | 0.00     |

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 ALS Vial : 2 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  | 68    | 0.00     |
| 50 S  | Toluene-d8                  | 1.035 | 1.104 | -6.7 | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.163 | 0.161 | 1.2  | 78    | 0.00     |
| 52 CM | Toluene                     | 0.780 | 0.736 | 5.6# | 69    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.352 | 0.336 | 4.5  | 72    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.430 | 0.411 | 4.4  | 72    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.209 | 0.198 | 5.3  | 73    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.284 | 0.264 | 7.0  | 71    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.340 | 0.332 | 2.4  | 74    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.136 | 0.131 | 3.7  | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.114 | 0.117 | -2.6 | 79    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.271 | 0.259 | 4.4  | 72    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.197 | 0.185 | 6.1  | 73    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.334 | 0.341 | -2.1 | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 80    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.333 | 0.335 | -0.6 | 74    | 0.00     |
| 65 PM | Chlorobenzene               | 1.018 | 0.944 | 7.3  | 69    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.329 | 0.305 | 7.3  | 71    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.719 | 1.634 | 4.9# | 71    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.680 | 0.642 | 5.6  | 70    | 0.00     |
| 69 T  | o-Xylene                    | 0.653 | 0.613 | 6.1  | 71    | 0.00     |
| 70 T  | Styrene                     | 1.090 | 1.011 | 7.2  | 69    | 0.00     |
| 71 P  | Bromoform                   | 0.182 | 0.159 | 12.6 | 67    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 80    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.749 | 3.540 | 5.6  | 71    | 0.00     |
| 74 T  | N-amyl acetate              | 0.778 | 0.742 | 4.6  | 77    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.598 | 0.534 | 10.7 | 71    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.400 | 0.387 | 3.3  | 78    | 0.00     |
| 77 T  | Bromobenzene                | 0.861 | 0.783 | 9.1  | 68    | 0.00     |
| 78 T  | n-propylbenzene             | 4.360 | 4.144 | 5.0  | 70    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.423 | 2.227 | 8.1  | 70    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.956 | 2.764 | 6.5  | 70    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.208 | 0.193 | 7.2  | 71    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.434 | 2.218 | 8.9  | 69    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.727 | 2.580 | 5.4  | 70    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.896 | 2.746 | 5.2  | 71    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.999 | 3.752 | 6.2  | 70    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.290 | 3.096 | 5.9  | 70    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.663 | 1.532 | 7.9  | 70    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.621 | 1.509 | 6.9  | 70    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.978 | 2.819 | 5.3  | 70    | 0.00     |
| 90 T  | Hexachloroethane            | 0.645 | 0.584 | 9.5  | 68    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.430 | 1.341 | 6.2  | 71    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.081 | 0.076 | 6.2  | 79    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.804 | 0.752 | 6.5  | 71    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.443 | 0.392 | 11.5 | 64    | 0.00     |
| 95 T  | Naphthalene                 | 1.473 | 1.391 | 5.6  | 74    | 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 | 0.660 | 0.624 | 5.5  | 72    | 0.00     |

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