

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY051324\  
 Data File : VY018237.D  
 Acq On : 13 May 2024 12:34  
 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: May 14 02:22:10 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   | 87    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.397 | 0.359 | 9.6   | 76    | 0.00     |
| 3 P   | Chloromethane               | 0.531 | 0.509 | 4.1   | 78    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.643 | 0.630 | 2.0#  | 79    | 0.00     |
| 5 T   | Bromomethane                | 0.447 | 0.437 | 2.2   | 83    | 0.00     |
| 6 T   | Chloroethane                | 0.408 | 0.400 | 2.0   | 80    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.754 | 0.693 | 8.1   | 76    | 0.00     |
| 8 T   | Diethyl Ether               | 0.248 | 0.219 | 11.7  | 75    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.480 | 0.427 | 11.0  | 74    | 0.00     |
| 10 T  | Methyl Iodide               | 0.561 | 0.518 | 7.7   | 70    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.037 | 0.034 | 8.1   | 92    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.484 | 0.445 | 8.1#  | 74    | 0.00     |
| 13 T  | Acrolein                    | 0.040 | 0.043 | -7.5  | 125   | 0.00     |
| 14 T  | Allyl chloride              | 0.615 | 0.556 | 9.6   | 74    | 0.00     |
| 15 T  | Acrylonitrile               | 0.095 | 0.092 | 3.2   | 85    | 0.00     |
| 16 T  | Acetone                     | 0.073 | 0.090 | -23.3 | 106   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.316 | 1.253 | 4.8   | 72    | 0.00     |
| 18 T  | Methyl Acetate              | 0.209 | 0.182 | 12.9  | 81    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.077 | 0.990 | 8.1   | 80    | 0.00     |
| 20 T  | Methylene Chloride          | 0.519 | 0.513 | 1.2   | 88    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.513 | 0.469 | 8.6   | 74    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.305 | 1.202 | 7.9   | 78    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.793 | 0.773 | 2.5   | 84    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.804 | 0.740 | 8.0   | 76    | 0.00     |
| 25 T  | 2-Butanone                  | 0.117 | 0.125 | -6.8  | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.727 | 0.669 | 8.0   | 76    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.606 | 0.554 | 8.6   | 75    | 0.00     |
| 28 T  | Bromochloromethane          | 0.321 | 0.316 | 1.6   | 88    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.077 | 0.075 | 2.6   | 88    | 0.00     |
| 30 C  | Chloroform                  | 0.839 | 0.764 | 8.9#  | 76    | 0.00     |
| 31 T  | Cyclohexane                 | 0.763 | 0.655 | 14.2  | 73    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.752 | 0.687 | 8.6   | 76    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.368 | 0.424 | -15.2 | 122   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 88    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.263 | 0.296 | -12.5 | 115   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.377 | 0.347 | 8.0   | 75    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.159 | 0.160 | -0.6  | 88    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.412 | 0.380 | 7.8   | 75    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.543 | 0.495 | 8.8   | 72    | 0.00     |
| 40 TM | Benzene                     | 1.212 | 1.109 | 8.5   | 75    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.092 | 0.093 | -1.1  | 84    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.264 | 0.253 | 4.2   | 83    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.325 | 0.310 | 4.6   | 86    | 0.00     |
| 44 TM | Trichloroethene             | 0.330 | 0.300 | 9.1   | 74    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.265 | 0.239 | 9.8#  | 74    | 0.00     |
| 46 T  | Dibromomethane              | 0.152 | 0.141 | 7.2   | 81    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.376 | 0.345 | 8.2   | 76    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.149 | 0.143 | 4.0   | 86    | 0.00     |

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 ALS Vial : 3 Sample Multiplier: 1

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 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   | 84    | 0.00     |
| 50 S  | Toluene-d8                  | 1.035 | 1.185 | -14.5 | 116   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.163 | 0.158 | 3.1   | 86    | 0.00     |
| 52 CM | Toluene                     | 0.780 | 0.714 | 8.5#  | 76    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.352 | 0.327 | 7.1   | 79    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.430 | 0.397 | 7.7   | 79    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.209 | 0.195 | 6.7   | 81    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.284 | 0.265 | 6.7   | 81    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.340 | 0.315 | 7.4   | 79    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.136 | 0.124 | 8.8   | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.114 | 0.118 | -3.5  | 89    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.271 | 0.249 | 8.1   | 78    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.197 | 0.182 | 7.6   | 81    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.334 | 0.369 | -10.5 | 116   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.333 | 0.301 | 9.6   | 75    | 0.00     |
| 65 PM | Chlorobenzene               | 1.018 | 0.916 | 10.0  | 76    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.329 | 0.297 | 9.7   | 78    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.719 | 1.559 | 9.3#  | 76    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.680 | 0.618 | 9.1   | 76    | 0.00     |
| 69 T  | o-Xylene                    | 0.653 | 0.585 | 10.4  | 76    | 0.00     |
| 70 T  | Styrene                     | 1.090 | 0.984 | 9.7   | 76    | 0.00     |
| 71 P  | Bromoform                   | 0.182 | 0.166 | 8.8   | 80    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.749 | 3.361 | 10.3  | 76    | 0.00     |
| 74 T  | N-amyl acetate              | 0.778 | 0.743 | 4.5   | 87    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.598 | 0.552 | 7.7   | 83    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.400 | 0.374 | 6.5   | 85    | 0.00     |
| 77 T  | Bromobenzene                | 0.861 | 0.771 | 10.5  | 76    | 0.00     |
| 78 T  | n-propylbenzene             | 4.360 | 3.970 | 8.9   | 76    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.423 | 2.155 | 11.1  | 76    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.956 | 2.678 | 9.4   | 76    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.208 | 0.198 | 4.8   | 82    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.434 | 2.214 | 9.0   | 78    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.727 | 2.478 | 9.1   | 76    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.896 | 2.625 | 9.4   | 77    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.999 | 3.637 | 9.1   | 76    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.290 | 2.996 | 8.9   | 76    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.663 | 1.498 | 9.9   | 77    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.621 | 1.469 | 9.4   | 77    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.978 | 2.786 | 6.4   | 78    | 0.00     |
| 90 T  | Hexachloroethane            | 0.645 | 0.581 | 9.9   | 76    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.430 | 1.309 | 8.5   | 79    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.081 | 0.078 | 3.7   | 91    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.804 | 0.765 | 4.9   | 82    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.443 | 0.428 | 3.4   | 78    | 0.00     |
| 95 T  | Naphthalene                 | 1.473 | 1.435 | 2.6   | 86    | 0.00     |

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Quant Title : SW846 8260  
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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 | 0.660 | 0.0  | 86    | 0.00     |

(#) = Out of Range

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