

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091522\  
 Data File : VY010500.D  
 Acq On : 15 Sep 2022 10:26  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 15 12:08:00 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090922S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 09 17:08:30 2022  
 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     | 0.383 | 0.330 | 13.8  | 83    | 0.00     |
| 3 P   | Chloromethane               | 0.562 | 0.486 | 13.5  | 81    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.693 | 0.619 | 10.7# | 81    | 0.00     |
| 5 T   | Bromomethane                | 0.486 | 0.436 | 10.3  | 84    | 0.00     |
| 6 T   | Chloroethane                | 0.464 | 0.436 | 6.0   | 85    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.878 | 0.830 | 5.5   | 85    | 0.00     |
| 8 T   | Diethyl Ether               | 0.284 | 0.280 | 1.4   | 89    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.514 | 0.494 | 3.9   | 86    | 0.00     |
| 10 T  | Methyl Iodide               | 0.636 | 0.592 | 6.9   | 78    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.068 | 0.054 | 20.6  | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.482 | 0.451 | 6.4#  | 83    | 0.00     |
| 13 T  | Acrolein                    | 0.048 | 0.042 | 12.5  | 78    | 0.00     |
| 14 T  | Allyl chloride              | 0.694 | 0.677 | 2.4   | 86    | 0.00     |
| 15 T  | Acrylonitrile               | 0.138 | 0.150 | -8.7  | 97    | 0.00     |
| 16 T  | Acetone                     | 0.116 | 0.125 | -7.8  | 98    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.304 | 1.111 | 14.8  | 77    | 0.00     |
| 18 T  | Methyl Acetate              | 0.356 | 0.352 | 1.1   | 95    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.332 | 1.370 | -2.9  | 91    | 0.00     |
| 20 T  | Methylene Chloride          | 0.705 | 0.602 | 14.6  | 93    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.547 | 0.509 | 6.9   | 84    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.550 | 1.571 | -1.4  | 90    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.950 | 0.999 | -5.2  | 91    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.938 | 0.941 | -0.3  | 88    | 0.00     |
| 25 T  | 2-Butanone                  | 0.184 | 0.197 | -7.1  | 98    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.896 | 0.897 | -0.1  | 91    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.636 | 0.623 | 2.0   | 86    | 0.00     |
| 28 T  | Bromochloromethane          | 0.301 | 0.305 | -1.3  | 83    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.115 | 0.121 | -5.2  | 96    | 0.00     |
| 30 C  | Chloroform                  | 0.995 | 1.011 | -1.6# | 89    | 0.00     |
| 31 T  | Cyclohexane                 | 0.851 | 0.764 | 10.2  | 84    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.901 | 0.905 | -0.4  | 87    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.504 | 0.483 | 4.2   | 84    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 88    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.355 | 0.307 | 13.5  | 85    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.486 | 0.460 | 5.3   | 85    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.256 | 0.264 | -3.1  | 95    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.541 | 0.529 | 2.2   | 86    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.606 | 0.557 | 8.1   | 83    | 0.00     |
| 40 TM | Benzene                     | 1.399 | 1.348 | 3.6   | 86    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.146 | 0.152 | -4.1  | 92    | 0.02     |
| 42 TM | 1,2-Dichloroethane          | 0.416 | 0.414 | 0.5   | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.468 | 0.492 | -5.1  | 94    | 0.00     |
| 44 TM | Trichloroethene             | 0.412 | 0.383 | 7.0   | 83    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.341 | 0.342 | -0.3# | 89    | 0.00     |
| 46 T  | Dibromomethane              | 0.206 | 0.206 | 0.0   | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.489 | 0.499 | -2.0  | 90    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.210 | 0.226 | -7.6  | 94    | 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                 | 0.003 | 0.003 | 0.0   | 88    | 0.00     |
| 50 S  | Toluene-d8                  | 1.151 | 1.105 | 4.0   | 81    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.257 | 0.279 | -8.6  | 97    | 0.00     |
| 52 CM | Toluene                     | 0.916 | 0.886 | 3.3#  | 86    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.503 | 0.511 | -1.6  | 90    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.567 | 0.571 | -0.7  | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.293 | 0.295 | -0.7  | 90    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.385 | 0.401 | -4.2  | 92    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.487 | 0.492 | -1.0  | 90    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.131 | 0.103 | 21.4  | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.175 | 0.193 | -10.3 | 97    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.358 | 0.365 | -2.0  | 89    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.284 | 0.281 | 1.1   | 89    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.528 | 0.403 | 23.7  | 84    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 89    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.451 | 0.415 | 8.0   | 83    | 0.00     |
| 65 PM | Chlorobenzene               | 1.118 | 1.074 | 3.9   | 87    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.414 | 0.416 | -0.5  | 88    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.979 | 1.923 | 2.8#  | 87    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.777 | 0.753 | 3.1   | 86    | 0.00     |
| 69 T  | o-Xylene                    | 0.742 | 0.722 | 2.7   | 87    | 0.00     |
| 70 T  | Styrene                     | 1.256 | 1.227 | 2.3   | 87    | 0.00     |
| 71 P  | Bromoform                   | 0.259 | 0.264 | -1.9  | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.901 | 3.719 | 4.7   | 87    | 0.00     |
| 74 T  | N-amyl acetate              | 0.910 | 0.946 | -4.0  | 92    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.730 | 0.742 | -1.6  | 94    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.552 | 0.671 | -21.6 | 113   | 0.00     |
| 77 T  | Bromobenzene                | 0.924 | 0.864 | 6.5   | 85    | 0.00     |
| 78 T  | n-propylbenzene             | 4.620 | 4.443 | 3.8   | 87    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.595 | 2.485 | 4.2   | 87    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.292 | 3.160 | 4.0   | 88    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.249 | 0.255 | -2.4  | 93    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.700 | 2.587 | 4.2   | 88    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.877 | 2.772 | 3.6   | 87    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.221 | 3.130 | 2.8   | 89    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.260 | 4.089 | 4.0   | 87    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.603 | 3.456 | 4.1   | 86    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.856 | 1.737 | 6.4   | 86    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.838 | 1.722 | 6.3   | 86    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.271 | 3.157 | 3.5   | 87    | 0.00     |
| 90 T  | Hexachloroethane            | 0.677 | 0.644 | 4.9   | 87    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.644 | 1.552 | 5.6   | 87    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.123 | 0.128 | -4.1  | 100   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.021 | 0.960 | 6.0   | 86    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.616 | 0.567 | 8.0   | 85    | 0.00     |
| 95 T  | Naphthalene                 | 2.014 | 2.038 | -1.2  | 93    | 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 | 0.891 | 0.833 | 6.5  | 87    | 0.00     |

(#) = Out of Range

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