

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY041822\  
 Data File : VY008386.D  
 Acq On : 18 Apr 2022 20:13  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 19 06:33:30 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y040822S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 08 16:02:50 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   | 116   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.414 | 0.321 | 22.5  | 109   | 0.00     |
| 3 P   | Chloromethane               | 0.537 | 0.347 | 35.4# | 89    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.712 | 0.491 | 31.0# | 92    | 0.00     |
| 5 T   | Bromomethane                | 0.644 | 0.467 | 27.5# | 109   | 0.00     |
| 6 T   | Chloroethane                | 0.499 | 0.367 | 26.5# | 98    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.848 | 0.808 | 4.7   | 127   | 0.00     |
| 8 T   | Diethyl Ether               | 0.306 | 0.276 | 9.8   | 121   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.551 | 0.516 | 6.4   | 122   | 0.00     |
| 10 T  | Methyl Iodide               | 0.546 | 0.567 | -3.8  | 117   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.050 | 0.054 | -8.0  | 146   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.493 | 0.447 | 9.3#  | 119   | 0.00     |
| 13 T  | Acrolein                    | 0.040 | 0.030 | 25.0# | 77    | 0.00     |
| 14 T  | Allyl chloride              | 0.644 | 0.479 | 25.6# | 94    | 0.00     |
| 15 T  | Acrylonitrile               | 0.150 | 0.130 | 13.3  | 112   | 0.00     |
| 16 T  | Acetone                     | 0.113 | 0.091 | 19.5  | 101   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.301 | 0.927 | 28.7# | 96    | 0.00     |
| 18 T  | Methyl Acetate              | 0.326 | 0.259 | 20.6  | 111   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.522 | 1.417 | 6.9   | 119   | 0.00     |
| 20 T  | Methylene Chloride          | 0.777 | 0.562 | 27.7# | 115   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.591 | 0.514 | 13.0  | 113   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.518 | 1.228 | 19.1  | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.984 | 0.828 | 15.9  | 104   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.975 | 0.843 | 13.5  | 110   | 0.00     |
| 25 T  | 2-Butanone                  | 0.177 | 0.152 | 14.1  | 112   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.898 | 0.804 | 10.5  | 111   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.701 | 0.660 | 5.8   | 119   | 0.00     |
| 28 T  | Bromochloromethane          | 0.374 | 0.319 | 14.7  | 95    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.114 | 0.099 | 13.2  | 111   | 0.00     |
| 30 C  | Chloroform                  | 1.088 | 1.017 | 6.5#  | 119   | 0.00     |
| 31 T  | Cyclohexane                 | 0.849 | 0.618 | 27.2# | 99    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.952 | 0.904 | 5.0   | 119   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.470 | 0.374 | 20.4  | 104   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 109   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.289 | 0.278 | 3.8   | 113   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.461 | 0.429 | 6.9   | 109   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.238 | 0.220 | 7.6   | 111   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.496 | 0.510 | -2.8  | 120   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.593 | 0.532 | 10.3  | 106   | 0.00     |
| 40 TM | Benzene                     | 1.373 | 1.292 | 5.9   | 111   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.133 | 0.109 | 18.0  | 93    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.398 | 0.372 | 6.5   | 110   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.441 | 0.420 | 4.8   | 114   | 0.00     |
| 44 TM | Trichloroethene             | 0.391 | 0.407 | -4.1  | 122   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.335 | 0.311 | 7.2#  | 108   | 0.00     |
| 46 T  | Dibromomethane              | 0.222 | 0.221 | 0.5   | 117   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.499 | 0.502 | -0.6  | 117   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.188 | 0.177 | 5.9   | 115   | 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   | 120   | 0.00     |
| 50 S  | Toluene-d8                  | 0.988 | 0.891 | 9.8   | 105   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.228 | 0.225 | 1.3   | 118   | 0.00     |
| 52 CM | Toluene                     | 0.905 | 0.863 | 4.6#  | 111   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.509 | 0.498 | 2.2   | 113   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.574 | 0.560 | 2.4   | 112   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.317 | 0.325 | -2.5  | 120   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.388 | 0.401 | -3.4  | 118   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.509 | 0.503 | 1.2   | 116   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.153 | 0.126 | 17.6  | 99    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.157 | 0.156 | 0.6   | 118   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.370 | 0.406 | -9.7  | 125   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.310 | 0.321 | -3.5  | 121   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.372 | 0.341 | 8.3   | 109   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 108   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.352 | 0.365 | -3.7  | 119   | 0.00     |
| 65 PM | Chlorobenzene               | 1.084 | 1.129 | -4.2  | 118   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.405 | 0.446 | -10.1 | 122   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.844 | 1.845 | -0.1# | 112   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.733 | 0.740 | -1.0  | 113   | 0.00     |
| 69 T  | o-Xylene                    | 0.712 | 0.738 | -3.7  | 115   | 0.00     |
| 70 T  | Styrene                     | 1.174 | 1.221 | -4.0  | 114   | 0.00     |
| 71 P  | Bromoform                   | 0.244 | 0.284 | -16.4 | 128   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 108   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.717 | 3.773 | -1.5  | 116   | 0.00     |
| 74 T  | N-amyl acetate              | 0.807 | 0.797 | 1.2   | 117   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.787 | 0.817 | -3.8  | 122   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.553 | 0.578 | -4.5  | 114   | 0.00     |
| 77 T  | Bromobenzene                | 0.911 | 0.954 | -4.7  | 122   | 0.00     |
| 78 T  | n-propylbenzene             | 4.387 | 4.271 | 2.6   | 111   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.462 | 2.407 | 2.2   | 114   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.048 | 3.061 | -0.4  | 114   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.247 | 0.246 | 0.4   | 114   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.530 | 2.440 | 3.6   | 112   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.735 | 2.852 | -4.3  | 118   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.017 | 3.083 | -2.2  | 116   | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.054 | 4.073 | -0.5  | 114   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.383 | 3.446 | -1.9  | 114   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.804 | 1.843 | -2.2  | 116   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.786 | 1.848 | -3.5  | 118   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.057 | 3.001 | 1.8   | 111   | 0.00     |
| 90 T  | Hexachloroethane            | 0.632 | 0.672 | -6.3  | 119   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.605 | 1.679 | -4.6  | 119   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.113 | 0.120 | -6.2  | 124   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.949 | 1.005 | -5.9  | 126   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.482 | 0.516 | -7.1  | 128   | 0.00     |
| 95 T  | Naphthalene                 | 2.034 | 2.285 | -12.3 | 133   | 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 | 0.831 | 0.898 | -8.1 | 130   | 0.00     |

(#) = Out of Range

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