

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY031121\  
 Data File : VY004083.D  
 Acq On : 11 Mar 2021 17:37  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5mL/MSVOA\_Y/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 12 01:20:24 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030821S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 08 12:28:55 2021  
 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   | 80    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.402 | 0.317 | 21.1  | 77    | 0.00     |
| 3 P   | Chloromethane               | 0.541 | 0.439 | 18.9  | 73    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.604 | 0.523 | 13.4# | 76    | 0.00     |
| 5 T   | Bromomethane                | 0.386 | 0.351 | 9.1   | 82    | 0.00     |
| 6 T   | Chloroethane                | 0.368 | 0.337 | 8.4   | 78    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.803 | 0.731 | 9.0   | 78    | 0.00     |
| 8 T   | Diethyl Ether               | 0.257 | 0.256 | 0.4   | 81    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.449 | 0.417 | 7.1   | 79    | 0.00     |
| 10 T  | Methyl Iodide               | 0.459 | 0.456 | 0.7   | 79    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.045 | 0.042 | 6.7   | 73    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.440 | 0.402 | 8.6#  | 78    | 0.00     |
| 13 T  | Acrolein                    | 0.044 | 0.050 | -13.6 | 78    | 0.00     |
| 14 T  | Allyl chloride              | 0.727 | 0.641 | 11.8  | 73    | 0.00     |
| 15 T  | Acrylonitrile               | 0.128 | 0.121 | 5.5   | 74    | 0.00     |
| 16 T  | Acetone                     | 0.119 | 0.093 | 21.8  | 58    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.293 | 1.115 | 13.8  | 75    | 0.00     |
| 18 T  | Methyl Acetate              | 0.294 | 0.286 | 2.7   | 76    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.252 | 1.243 | 0.7   | 78    | 0.00     |
| 20 T  | Methylene Chloride          | 0.575 | 0.485 | 15.7  | 81    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.494 | 0.463 | 6.3   | 78    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.535 | 1.408 | 8.3   | 75    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.010 | 0.932 | 7.7   | 73    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.852 | 0.802 | 5.9   | 77    | 0.00     |
| 25 T  | 2-Butanone                  | 0.172 | 0.155 | 9.9   | 68    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.814 | 0.719 | 11.7  | 73    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.562 | 0.548 | 2.5   | 81    | 0.00     |
| 28 T  | Bromochloromethane          | 0.372 | 0.343 | 7.8   | 76    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.112 | 0.103 | 8.0   | 71    | 0.00     |
| 30 C  | Chloroform                  | 0.883 | 0.860 | 2.6#  | 80    | 0.00     |
| 31 T  | Cyclohexane                 | 0.866 | 0.711 | 17.9  | 72    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.819 | 0.786 | 4.0   | 79    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.493 | 0.493 | 0.0   | 78    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 82    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.282 | 0.292 | -3.5  | 82    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.439 | 0.403 | 8.2   | 77    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.237 | 0.214 | 9.7   | 70    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.466 | 0.440 | 5.6   | 79    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.567 | 0.505 | 10.9  | 76    | 0.00     |
| 40 TM | Benzene                     | 1.237 | 1.174 | 5.1   | 79    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.147 | 0.117 | 20.4  | 66    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.378 | 0.365 | 3.4   | 79    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.475 | 0.441 | 7.2   | 73    | 0.00     |
| 44 TM | Trichloroethene             | 0.358 | 0.369 | -3.1  | 86    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.309 | 0.292 | 5.5#  | 78    | 0.00     |
| 46 T  | Dibromomethane              | 0.177 | 0.175 | 1.1   | 81    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.441 | 0.433 | 1.8   | 80    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.226 | 0.203 | 10.2  | 71    | 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                 | 0.002 | 0.002 | 0.0  | 79    | 0.00     |
| 50 S  | Toluene-d8                  | 1.105 | 1.086 | 1.7  | 80    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.240 | 0.225 | 6.2  | 71    | 0.00     |
| 52 CM | Toluene                     | 0.801 | 0.765 | 4.5# | 80    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.465 | 0.441 | 5.2  | 76    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.521 | 0.499 | 4.2  | 78    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.248 | 0.253 | -2.0 | 81    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.347 | 0.336 | 3.2  | 76    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.425 | 0.420 | 1.2  | 79    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.154 | 0.127 | 17.5 | 76    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.169 | 0.155 | 8.3  | 69    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.312 | 0.321 | -2.9 | 82    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.242 | 0.244 | -0.8 | 81    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.408 | 0.400 | 2.0  | 78    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 82    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.419 | 0.449 | -7.2 | 91    | 0.00     |
| 65 PM | Chlorobenzene               | 0.958 | 0.937 | 2.2  | 81    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.358 | 0.363 | -1.4 | 83    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.759 | 1.664 | 5.4# | 79    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.671 | 0.641 | 4.5  | 80    | 0.00     |
| 69 T  | o-Xylene                    | 0.634 | 0.613 | 3.3  | 80    | 0.00     |
| 70 T  | Styrene                     | 1.086 | 1.055 | 2.9  | 80    | 0.00     |
| 71 P  | Bromoform                   | 0.214 | 0.221 | -3.3 | 81    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 82    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.475 | 3.273 | 5.8  | 79    | 0.00     |
| 74 T  | N-amyl acetate              | 0.995 | 0.888 | 10.8 | 70    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.604 | 0.517 | 14.4 | 67    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.479 | 0.415 | 13.4 | 70    | 0.00     |
| 77 T  | Bromobenzene                | 0.803 | 0.798 | 0.6  | 83    | 0.00     |
| 78 T  | n-propylbenzene             | 4.094 | 3.770 | 7.9  | 77    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.298 | 2.135 | 7.1  | 78    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.947 | 2.765 | 6.2  | 79    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.243 | 0.221 | 9.1  | 72    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.433 | 2.232 | 8.3  | 78    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.536 | 2.421 | 4.5  | 80    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.952 | 2.809 | 4.8  | 79    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.497 | 3.295 | 5.8  | 79    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.242 | 3.064 | 5.5  | 79    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.550 | 1.509 | 2.6  | 81    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.547 | 1.507 | 2.6  | 82    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.085 | 2.843 | 7.8  | 77    | 0.00     |
| 90 T  | Hexachloroethane            | 0.583 | 0.550 | 5.7  | 78    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.375 | 1.366 | 0.7  | 82    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.114 | 0.109 | 4.4  | 76    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.932 | 0.928 | 0.4  | 81    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.523 | 0.495 | 5.4  | 78    | 0.00     |
| 95 T  | Naphthalene                 | 1.847 | 1.905 | -3.1 | 82    | 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 | 0.784 | 0.800 | -2.0 | 83    | 0.00     |

(#) = Out of Range

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