

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY020923\  
 Data File : VY012554.D  
 Acq On : 09 Feb 2023 09:40  
 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: Feb 09 16:37:26 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020723S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 08 01:09:03 2023  
 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   | 94    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.403 | 0.331 | 17.9  | 91    | 0.00     |
| 3 P   | Chloromethane               | 0.390 | 0.342 | 12.3  | 92    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.485 | 0.436 | 10.1# | 92    | 0.00     |
| 5 T   | Bromomethane                | 0.400 | 0.367 | 8.3   | 99    | 0.00     |
| 6 T   | Chloroethane                | 0.338 | 0.319 | 5.6   | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.998 | 0.942 | 5.6   | 94    | 0.00     |
| 8 T   | Diethyl Ether               | 0.296 | 0.288 | 2.7   | 98    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.504 | 0.485 | 3.8   | 93    | 0.00     |
| 10 T  | Methyl Iodide               | 0.653 | 0.557 | 14.7  | 78    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.072 | 0.052 | 27.8# | 96    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.498 | 0.475 | 4.6#  | 95    | 0.00     |
| 13 T  | Acrolein                    | 0.075 | 0.067 | 10.7  | 95    | 0.00     |
| 14 T  | Allyl chloride              | 0.607 | 0.578 | 4.8   | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 0.136 | 0.141 | -3.7  | 105   | 0.00     |
| 16 T  | Acetone                     | 0.153 | 0.172 | -12.4 | 108   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.291 | 1.123 | 13.0  | 90    | 0.00     |
| 18 T  | Methyl Acetate              | 0.368 | 0.348 | 5.4   | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.457 | 1.510 | -3.6  | 102   | 0.00     |
| 20 T  | Methylene Chloride          | 0.677 | 0.543 | 19.8  | 89    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.543 | 0.520 | 4.2   | 94    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.234 | 1.260 | -2.1  | 97    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.744 | 0.789 | -6.0  | 101   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.882 | 0.869 | 1.5   | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 0.170 | 0.178 | -4.7  | 107   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.969 | 0.950 | 2.0   | 96    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.630 | 0.630 | 0.0   | 97    | 0.00     |
| 28 T  | Bromochloromethane          | 0.321 | 0.336 | -4.7  | 96    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.092 | 0.097 | -5.4  | 108   | 0.00     |
| 30 C  | Chloroform                  | 1.064 | 1.071 | -0.7# | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 0.735 | 0.668 | 9.1   | 92    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.032 | 1.032 | 0.0   | 96    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.636 | 0.648 | -1.9  | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.364 | 0.385 | -5.8  | 96    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.493 | 0.487 | 1.2   | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.222 | 0.234 | -5.4  | 107   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.662 | 0.679 | -2.6  | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.593 | 0.580 | 2.2   | 93    | 0.00     |
| 40 TM | Benzene                     | 1.456 | 1.465 | -0.6  | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.122 | 0.123 | -0.8  | 89    | -0.02    |
| 42 TM | 1,2-Dichloroethane          | 0.472 | 0.488 | -3.4  | 100   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.412 | 0.445 | -8.0  | 106   | 0.00     |
| 44 TM | Trichloroethene             | 0.443 | 0.451 | -1.8  | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.316 | 0.318 | -0.6# | 95    | 0.00     |
| 46 T  | Dibromomethane              | 0.209 | 0.217 | -3.8  | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.542 | 0.560 | -3.3  | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.188 | 0.205 | -9.0  | 108   | 0.00     |

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 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   | 113   | 0.00     |
| 50 S  | Toluene-d8                  | 1.516 | 1.600 | -5.5  | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.222 | 0.247 | -11.3 | 110   | 0.00     |
| 52 CM | Toluene                     | 0.987 | 1.007 | -2.0# | 97    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.546 | 0.572 | -4.8  | 99    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.591 | 0.606 | -2.5  | 97    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.305 | 0.322 | -5.6  | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.384 | 0.428 | -11.5 | 107   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.493 | 0.527 | -6.9  | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.172 | 0.187 | -8.7  | 104   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.168 | 0.193 | -14.9 | 112   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.407 | 0.436 | -7.1  | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.286 | 0.302 | -5.6  | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.529 | 0.555 | -4.9  | 101   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.522 | 0.569 | -9.0  | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 1.186 | 1.203 | -1.4  | 99    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.465 | 0.481 | -3.4  | 100   | 0.00     |
| 67 C  | Ethyl Benzene               | 2.082 | 2.143 | -2.9# | 98    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.831 | 0.850 | -2.3  | 97    | 0.00     |
| 69 T  | o-Xylene                    | 0.791 | 0.817 | -3.3  | 97    | 0.00     |
| 70 T  | Styrene                     | 1.342 | 1.405 | -4.7  | 99    | 0.00     |
| 71 P  | Bromoform                   | 0.294 | 0.321 | -9.2  | 107   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.045 | 4.187 | -3.5  | 99    | 0.00     |
| 74 T  | N-amyl acetate              | 0.732 | 0.788 | -7.7  | 107   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.654 | 0.667 | -2.0  | 106   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.559 | 0.586 | -4.8  | 110   | 0.00     |
| 77 T  | Bromobenzene                | 0.980 | 1.001 | -2.1  | 101   | 0.00     |
| 78 T  | n-propylbenzene             | 4.656 | 4.753 | -2.1  | 97    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.643 | 2.706 | -2.4  | 99    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.482 | 3.604 | -3.5  | 99    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.248 | 0.263 | -6.0  | 107   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.773 | 2.800 | -1.0  | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.054 | 3.210 | -5.1  | 101   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.426 | 3.556 | -3.8  | 98    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.369 | 4.502 | -3.0  | 98    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.790 | 3.913 | -3.2  | 98    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.951 | 1.988 | -1.9  | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.954 | 1.975 | -1.1  | 99    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.239 | 3.341 | -3.1  | 97    | 0.00     |
| 90 T  | Hexachloroethane            | 0.696 | 0.705 | -1.3  | 98    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.755 | 1.791 | -2.1  | 101   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.130 | 0.141 | -8.5  | 115   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.087 | 1.135 | -4.4  | 102   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.676 | 0.674 | 0.3   | 98    | 0.00     |
| 95 T  | Naphthalene                 | 2.087 | 2.292 | -9.8  | 107   | 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 | 0.941 | 0.990 | -5.2 | 104   | 0.00     |

(#) = Out of Range

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