

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082522\  
 Data File : VY010213.D  
 Acq On : 25 Aug 2022 19:03  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 26 06:48:29 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y082422S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 26 06:12:05 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   | 84    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.434 | 0.232 | 46.5# | 58    | 0.00     |
| 3 P   | Chloromethane               | 0.422 | 0.409 | 3.1   | 78    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.460 | 0.469 | -2.0# | 79    | 0.00     |
| 5 T   | Bromomethane                | 0.371 | 0.368 | 0.8   | 84    | 0.00     |
| 6 T   | Chloroethane                | 0.328 | 0.341 | -4.0  | 82    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.520 | 0.445 | 14.4  | 82    | 0.00     |
| 8 T   | Diethyl Ether               | 0.303 | 0.288 | 5.0   | 75    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.521 | 0.491 | 5.8   | 75    | 0.00     |
| 10 T  | Methyl Iodide               | 0.572 | 0.558 | 2.4   | 71    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.065 | 0.050 | 23.1  | 84    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.465 | 0.444 | 4.5#  | 73    | 0.00     |
| 13 T  | Acrolein                    | 0.022 | 0.015 | 31.8# | 85    | 0.00     |
| 14 T  | Allyl chloride              | 0.819 | 0.813 | 0.7   | 76    | 0.00     |
| 15 T  | Acrylonitrile               | 0.164 | 0.161 | 1.8   | 81    | 0.00     |
| 16 T  | Acetone                     | 0.136 | 0.117 | 14.0  | 80    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.185 | 1.150 | 3.0   | 70    | 0.00     |
| 18 T  | Methyl Acetate              | 0.466 | 0.401 | 13.9  | 84    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.374 | 1.367 | 0.5   | 77    | 0.00     |
| 20 T  | Methylene Chloride          | 0.901 | 0.719 | 20.2  | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.539 | 0.525 | 2.6   | 74    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.827 | 1.994 | -9.1  | 83    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.072 | 1.222 | -14.0 | 83    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.041 | 1.023 | 1.7   | 78    | 0.00     |
| 25 T  | 2-Butanone                  | 0.225 | 0.218 | 3.1   | 86    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.961 | 0.839 | 12.7  | 75    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.650 | 0.646 | 0.6   | 77    | 0.00     |
| 28 T  | Bromochloromethane          | 0.350 | 0.370 | -5.7  | 87    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.136 | 0.150 | -10.3 | 88    | 0.00     |
| 30 C  | Chloroform                  | 1.079 | 1.075 | 0.4#  | 79    | 0.00     |
| 31 T  | Cyclohexane                 | 0.852 | 0.853 | -0.1  | 77    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.906 | 0.890 | 1.8   | 78    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.492 | 0.413 | 16.1  | 87    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 82    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.328 | 0.296 | 9.8   | 84    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.482 | 0.506 | -5.0  | 78    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.308 | 0.329 | -6.8  | 89    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.511 | 0.521 | -2.0  | 78    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.535 | 0.291 | 45.6# | 38#   | 0.00     |
| 40 TM | Benzene                     | 1.476 | 1.505 | -2.0  | 78    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.154 | 0.150 | 2.6   | 70    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.410 | 0.424 | -3.4  | 82    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.536 | 0.586 | -9.3  | 86    | 0.00     |
| 44 TM | Trichloroethene             | 0.407 | 0.405 | 0.5   | 76    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.388 | 0.194 | 50.0# | 39#   | 0.00     |
| 46 T  | Dibromomethane              | 0.214 | 0.111 | 48.1# | 40#   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.526 | 0.274 | 47.9# | 41#   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.231 | 0.111 | 51.9# | 36#   | 0.00     |

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 ALS Vial : 18 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 | 0.001 | 50.0#  | 38#   | 0.00     |
| 50 S  | Toluene-d8                  | 1.138 | 0.482 | 57.6#  | 42#   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.294 | 0.133 | 54.8#  | 36#   | 0.00     |
| 52 CM | Toluene                     | 0.924 | 0.492 | 46.8#  | 40#   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.521 | 0.266 | 48.9#  | 39#   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.604 | 0.296 | 51.0#  | 37#   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.324 | 0.171 | 47.2#  | 42#   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.396 | 0.207 | 47.7#  | 39#   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.526 | 0.272 | 48.3#  | 41#   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.161 | 0.067 | 58.4#  | 40#   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.199 | 0.101 | 49.2#  | 40#   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.383 | 0.306 | 20.1   | 63    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.298 | 0.312 | -4.7   | 81    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.436 | 0.413 | 5.3    | 86    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 85    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.412 | 0.242 | 41.3#  | 46#   | 0.00     |
| 65 PM | Chlorobenzene               | 1.090 | 1.101 | -1.0   | 80    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.415 | 0.419 | -1.0   | 81    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.873 | 1.981 | -5.8#  | 80    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.719 | 0.765 | -6.4   | 80    | 0.00     |
| 69 T  | o-Xylene                    | 0.686 | 0.729 | -6.3   | 81    | 0.00     |
| 70 T  | Styrene                     | 1.175 | 1.264 | -7.6   | 81    | 0.00     |
| 71 P  | Bromoform                   | 0.262 | 0.265 | -1.1   | 84    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 88    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.449 | 3.572 | -3.6   | 81    | 0.00     |
| 74 T  | N-amyl acetate              | 0.944 | 1.044 | -10.6  | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.759 | 0.768 | -1.2   | 88    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.551 | 0.630 | -14.3  | 100   | 0.00     |
| 77 T  | Bromobenzene                | 0.852 | 0.838 | 1.6    | 81    | 0.00     |
| 78 T  | n-propylbenzene             | 4.291 | 4.464 | -4.0   | 82    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.415 | 2.454 | -1.6   | 81    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.932 | 2.993 | -2.1   | 81    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.259 | 0.264 | -1.9   | 87    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.526 | 2.545 | -0.8   | 81    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.519 | 2.632 | -4.5   | 82    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.900 | 3.002 | -3.5   | 82    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.835 | 4.031 | -5.1   | 82    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.128 | 3.326 | -6.3   | 82    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.734 | 1.710 | 1.4    | 82    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.749 | 1.693 | 3.2    | 82    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.001 | 3.152 | -5.0   | 81    | 0.00     |
| 90 T  | Hexachloroethane            | 0.660 | 0.660 | 0.0    | 82    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.551 | 1.525 | 1.7    | 82    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.104 | 0.117 | -12.5  | 90    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.718 | 0.880 | -22.6  | 78    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.434 | 0.507 | -16.8  | 76    | 0.00     |
| 95 T  | Naphthalene                 | 1.413 | 1.819 | -28.7# | 81    | 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 | 0.637 | 0.791 | -24.2 | 79    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6