

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD121523\  
 Data File : VD077912.D  
 Acq On : 15 Dec 2023 19:05  
 Operator : RP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 16 04:06:30 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D120823S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 14 14:48:10 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    | 83    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.625 | 0.493 | 21.1   | 68    | 0.00     |
| 3 P   | Chloromethane               | 0.851 | 0.939 | -10.3  | 93    | 0.00     |
| 4 C   | Vinyl Chloride              | 1.156 | 1.248 | -8.0#  | 87    | 0.00     |
| 5 T   | Bromomethane                | 0.649 | 0.833 | -28.4# | 103   | 0.00     |
| 6 T   | Chloroethane                | 0.788 | 0.917 | -16.4  | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.064 | 0.987 | 7.2    | 76    | 0.00     |
| 8 T   | Diethyl Ether               | 0.299 | 0.346 | -15.7  | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.609 | 0.568 | 6.7    | 75    | 0.00     |
| 10 T  | Methyl Iodide               | 0.399 | 0.696 | -74.4# | 107   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.032 | 0.029 | 9.4    | 86    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.601 | 0.613 | -2.0#  | 82    | 0.00     |
| 13 T  | Acrolein                    | 0.062 | 0.048 | 22.6   | 65    | 0.00     |
| 14 T  | Allyl chloride              | 0.827 | 0.861 | -4.1   | 85    | 0.00     |
| 15 T  | Acrylonitrile               | 0.128 | 0.146 | -14.1  | 94    | 0.00     |
| 16 T  | Acetone                     | 0.161 | 0.134 | 16.8   | 94    | 0.00     |
| 17 T  | Carbon Disulfide            | 2.033 | 1.920 | 5.6    | 77    | 0.00     |
| 18 T  | Methyl Acetate              | 0.464 | 0.593 | -27.8# | 106   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.275 | 1.502 | -17.8  | 96    | 0.00     |
| 20 T  | Methylene Chloride          | 0.835 | 0.796 | 4.7    | 91    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.681 | 0.727 | -6.8   | 84    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.727 | 1.922 | -11.3  | 89    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.844 | 0.883 | -4.6   | 84    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.170 | 1.284 | -9.7   | 89    | 0.00     |
| 25 T  | 2-Butanone                  | 0.185 | 0.174 | 5.9    | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.982 | 0.964 | 1.8    | 80    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.733 | 0.856 | -16.8  | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 0.473 | 0.474 | -0.2   | 81    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.094 | 0.102 | -8.5   | 91    | 0.00     |
| 30 C  | Chloroform                  | 1.171 | 1.304 | -11.4# | 89    | 0.00     |
| 31 T  | Cyclohexane                 | 1.048 | 0.907 | 13.5   | 72    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.032 | 1.087 | -5.3   | 84    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.589 | 0.649 | -10.2  | 89    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.350 | 0.368 | -5.1   | 93    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.560 | 0.516 | 7.9    | 80    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.218 | 0.184 | 15.6   | 84    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.558 | 0.503 | 9.9    | 78    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.664 | 0.568 | 14.5   | 72    | 0.00     |
| 40 TM | Benzene                     | 1.590 | 1.627 | -2.3   | 90    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.111 | 0.128 | -15.3  | 112   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.412 | 0.427 | -3.6   | 92    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.388 | 0.392 | -1.0   | 92    | 0.00     |
| 44 TM | Trichloroethene             | 0.414 | 0.417 | -0.7   | 87    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.387 | 0.400 | -3.4#  | 91    | 0.00     |
| 46 T  | Dibromomethane              | 0.205 | 0.223 | -8.8   | 96    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.518 | 0.557 | -7.5   | 94    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.221 | 0.234 | -5.9   | 95    | 0.00     |

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 ALS Vial : 23 Sample Multiplier: 1

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 MSVOA\_D  
 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 | 0.002 | 0.0   | 98    | 0.00     |
| 50 S  | Toluene-d8                  | 1.403 | 1.458 | -3.9  | 89    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.198 | 0.203 | -2.5  | 92    | 0.00     |
| 52 CM | Toluene                     | 0.986 | 1.021 | -3.5# | 88    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.498 | 0.531 | -6.6  | 93    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.602 | 0.630 | -4.7  | 91    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.280 | 0.298 | -6.4  | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.247 | 0.276 | -11.7 | 98    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.482 | 0.537 | -11.4 | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.141 | 0.168 | -19.1 | 115   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.164 | 0.146 | 11.0  | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.337 | 0.358 | -6.2  | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.263 | 0.285 | -8.4  | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.419 | 0.434 | -3.6  | 91    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.367 | 0.355 | 3.3   | 85    | 0.00     |
| 65 PM | Chlorobenzene               | 1.310 | 1.151 | 12.1  | 89    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.416 | 0.422 | -1.4  | 90    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.082 | 2.077 | 0.2#  | 87    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.796 | 0.815 | -2.4  | 88    | 0.00     |
| 69 T  | o-Xylene                    | 0.734 | 0.773 | -5.3  | 91    | 0.00     |
| 70 T  | Styrene                     | 1.091 | 1.159 | -6.2  | 91    | 0.00     |
| 71 P  | Bromoform                   | 0.217 | 0.230 | -6.0  | 96    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.790 | 3.729 | 1.6   | 85    | 0.00     |
| 74 T  | N-amyl acetate              | 0.745 | 0.713 | 4.3   | 88    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.661 | 0.699 | -5.7  | 94    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.434 | 0.459 | -5.8  | 82    | 0.00     |
| 77 T  | Bromobenzene                | 0.891 | 0.908 | -1.9  | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 4.618 | 4.531 | 1.9   | 84    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.475 | 2.491 | -0.6  | 88    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.161 | 3.153 | 0.3   | 85    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.214 | 0.222 | -3.7  | 94    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.587 | 2.638 | -2.0  | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.668 | 2.793 | -4.7  | 89    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.161 | 3.262 | -3.2  | 88    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.944 | 3.861 | 2.1   | 83    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.531 | 3.508 | 0.7   | 83    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.823 | 1.849 | -1.4  | 88    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.966 | 1.835 | 6.7   | 89    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.323 | 3.158 | 5.0   | 79    | 0.00     |
| 90 T  | Hexachloroethane            | 0.649 | 0.671 | -3.4  | 89    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.550 | 1.595 | -2.9  | 92    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.102 | 0.094 | 7.8   | 88    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.059 | 1.003 | 5.3   | 88    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.571 | 0.499 | 12.6  | 76    | 0.00     |
| 95 T  | Naphthalene                 | 1.759 | 1.914 | -8.8  | 96    | 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 | 0.873 | 0.868 | 0.6  | 90    | 0.00     |

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