

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD041923\  
 Data File : VD075756.D  
 Acq On : 19 Apr 2023 18:42  
 Operator : KP/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 20 06:01:54 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D041323S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 13 14:16:29 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   | 90    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.465 | 0.438 | 5.8   | 88    | 0.00     |
| 3 P   | Chloromethane               | 0.839 | 0.762 | 9.2   | 85    | 0.00     |
| 4 C   | Vinyl Chloride              | 1.113 | 0.945 | 15.1# | 79    | 0.00     |
| 5 T   | Bromomethane                | 0.869 | 0.726 | 16.5  | 79    | 0.00     |
| 6 T   | Chloroethane                | 0.749 | 0.663 | 11.5  | 83    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.863 | 0.807 | 6.5   | 87    | 0.00     |
| 8 T   | Diethyl Ether               | 0.268 | 0.261 | 2.6   | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.541 | 0.528 | 2.4   | 91    | 0.00     |
| 10 T  | Methyl Iodide               | 0.740 | 0.752 | -1.6  | 88    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.024 | 0.020 | 16.7  | 77    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.560 | 0.554 | 1.1#  | 90    | 0.00     |
| 13 T  | Acrolein                    | 0.048 | 0.045 | 6.3   | 86    | 0.00     |
| 14 T  | Allyl chloride              | 0.510 | 0.507 | 0.6   | 89    | 0.00     |
| 15 T  | Acrylonitrile               | 0.100 | 0.102 | -2.0  | 93    | 0.00     |
| 16 T  | Acetone                     | 0.087 | 0.081 | 6.9   | 78    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.833 | 1.651 | 9.9   | 84    | 0.00     |
| 18 T  | Methyl Acetate              | 0.293 | 0.300 | -2.4  | 94    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.087 | 1.103 | -1.5  | 90    | 0.00     |
| 20 T  | Methylene Chloride          | 0.800 | 0.675 | 15.6  | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.667 | 0.659 | 1.2   | 90    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.153 | 1.239 | -7.5  | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.535 | 0.574 | -7.3  | 91    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.955 | 0.974 | -2.0  | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 0.112 | 0.107 | 4.5   | 84    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.866 | 0.801 | 7.5   | 87    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.739 | 0.743 | -0.5  | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 0.302 | 0.314 | -4.0  | 98    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.061 | 0.063 | -3.3  | 90    | 0.00     |
| 30 C  | Chloroform                  | 1.083 | 1.093 | -0.9# | 93    | 0.00     |
| 31 T  | Cyclohexane                 | 0.745 | 0.702 | 5.8   | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.883 | 0.869 | 1.6   | 89    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.475 | 0.460 | 3.2   | 91    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.336 | 0.344 | -2.4  | 94    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.464 | 0.462 | 0.4   | 88    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.141 | 0.140 | 0.7   | 92    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.409 | 0.415 | -1.5  | 90    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.536 | 0.550 | -2.6  | 88    | 0.00     |
| 40 TM | Benzene                     | 1.442 | 1.478 | -2.5  | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.068 | 0.070 | -2.9  | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.328 | 0.336 | -2.4  | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.257 | 0.260 | -1.2  | 89    | 0.00     |
| 44 TM | Trichloroethene             | 0.408 | 0.406 | 0.5   | 89    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.323 | 0.340 | -5.3# | 95    | 0.00     |
| 46 T  | Dibromomethane              | 0.205 | 0.204 | 0.5   | 89    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.469 | 0.487 | -3.8  | 94    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.115 | 0.121 | -5.2  | 89    | 0.00     |

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Instrument :  
 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   | 83    | 0.00     |
| 50 S  | Toluene-d8                  | 1.347 | 1.349 | -0.1  | 81    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.137 | 0.139 | -1.5  | 81    | 0.00     |
| 52 CM | Toluene                     | 0.959 | 0.969 | -1.0# | 81    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.450 | 0.446 | 0.9   | 82    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.534 | 0.545 | -2.1  | 83    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.297 | 0.296 | 0.3   | 85    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.292 | 0.298 | -2.1  | 79    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.451 | 0.454 | -0.7  | 87    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.125 | 0.137 | -9.6  | 87    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.097 | 0.098 | -1.0  | 80    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.347 | 0.341 | 1.7   | 82    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.283 | 0.289 | -2.1  | 86    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.358 | 0.376 | -5.0  | 91    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.360 | 0.321 | 10.8  | 78    | 0.00     |
| 65 PM | Chlorobenzene               | 1.071 | 1.086 | -1.4  | 102   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.368 | 0.388 | -5.4  | 106   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.738 | 1.855 | -6.7# | 100   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.712 | 0.762 | -7.0  | 101   | 0.00     |
| 69 T  | o-Xylene                    | 0.644 | 0.660 | -2.5  | 94    | 0.00     |
| 70 T  | Styrene                     | 1.097 | 1.152 | -5.0  | 95    | 0.00     |
| 71 P  | Bromoform                   | 0.192 | 0.185 | 3.6   | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.281 | 3.524 | -7.4  | 90    | 0.00     |
| 74 T  | N-amyl acetate              | 0.482 | 0.500 | -3.7  | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.637 | 0.663 | -4.1  | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.408 | 0.355 | 13.0  | 89    | 0.00     |
| 77 T  | Bromobenzene                | 0.846 | 0.883 | -4.4  | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 4.022 | 4.287 | -6.6  | 90    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.281 | 2.307 | -1.1  | 90    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.736 | 2.944 | -7.6  | 92    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.188 | 0.193 | -2.7  | 87    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.372 | 2.411 | -1.6  | 90    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.307 | 2.504 | -8.5  | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.745 | 2.949 | -7.4  | 91    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.558 | 3.829 | -7.6  | 91    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.962 | 3.210 | -8.4  | 91    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.760 | 1.800 | -2.3  | 91    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.739 | 1.750 | -0.6  | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.729 | 2.877 | -5.4  | 90    | 0.00     |
| 90 T  | Hexachloroethane            | 0.589 | 0.579 | 1.7   | 90    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.508 | 1.561 | -3.5  | 93    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.085 | 0.084 | 1.2   | 91    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.877 | 0.865 | 1.4   | 92    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.419 | 0.410 | 2.1   | 95    | 0.00     |
| 95 T  | Naphthalene                 | 1.662 | 1.666 | -0.2  | 90    | 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 | 0.772 | 0.769 | 0.4  | 94    | 0.00     |

(#) = Out of Range

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