

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD061022\  
 Data File : VD073535.D  
 Acq On : 10 Jun 2022 18:30  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 10 23:07:03 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D060922S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 09 12:33:32 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   | 89    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.477 | 0.426 | 10.7  | 85    | 0.00     |
| 3 P   | Chloromethane               | 0.489 | 0.440 | 10.0  | 85    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.459 | 0.433 | 5.7#  | 85    | 0.00     |
| 5 T   | Bromomethane                | 0.329 | 0.310 | 5.8   | 89    | -0.01    |
| 6 T   | Chloroethane                | 0.292 | 0.281 | 3.8   | 87    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.898 | 0.890 | 0.9   | 89    | 0.00     |
| 8 T   | Diethyl Ether               | 0.257 | 0.253 | 1.6   | 90    | -0.01    |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.514 | 0.502 | 2.3   | 85    | 0.00     |
| 10 T  | Methyl Iodide               | 0.536 | 0.526 | 1.9   | 82    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.150 | 0.059 | 60.7# | 82    | 0.04     |
| 12 CM | 1,1-Dichloroethene          | 0.488 | 0.482 | 1.2#  | 88    | 0.00     |
| 13 T  | Acrolein                    | 0.024 | 0.017 | 29.2# | 72    | 0.00     |
| 14 T  | Allyl chloride              | 0.726 | 0.729 | -0.4  | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 0.115 | 0.120 | -4.3  | 95    | 0.00     |
| 16 T  | Acetone                     | 0.094 | 0.087 | 7.4   | 91    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.546 | 1.521 | 1.6   | 86    | 0.00     |
| 18 T  | Methyl Acetate              | 0.285 | 0.256 | 10.2  | 97    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.164 | 1.272 | -9.3  | 97    | 0.00     |
| 20 T  | Methylene Chloride          | 0.668 | 0.625 | 6.4   | 93    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.590 | 0.595 | -0.8  | 88    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.567 | 1.655 | -5.6  | 92    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.850 | 0.933 | -9.8  | 94    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.005 | 0.999 | 0.6   | 89    | 0.00     |
| 25 T  | 2-Butanone                  | 0.139 | 0.140 | -0.7  | 96    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.901 | 0.888 | 1.4   | 90    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.638 | 0.675 | -5.8  | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 0.394 | 0.405 | -2.8  | 94    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.089 | 0.095 | -6.7  | 95    | 0.00     |
| 30 C  | Chloroform                  | 1.073 | 1.128 | -5.1# | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 0.904 | 0.868 | 4.0   | 85    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.946 | 0.977 | -3.3  | 90    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.537 | 0.565 | -5.2  | 99    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.322 | 0.335 | -4.0  | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.483 | 0.493 | -2.1  | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.195 | 0.205 | -5.1  | 94    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.505 | 0.527 | -4.4  | 92    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.563 | 0.576 | -2.3  | 86    | 0.00     |
| 40 TM | Benzene                     | 1.405 | 1.449 | -3.1  | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.106 | 0.124 | -17.0 | 98    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.388 | 0.417 | -7.5  | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.375 | 0.391 | -4.3  | 96    | 0.00     |
| 44 TM | Trichloroethene             | 0.391 | 0.397 | -1.5  | 90    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.348 | 0.353 | -1.4# | 92    | 0.00     |
| 46 T  | Dibromomethane              | 0.196 | 0.209 | -6.6  | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.491 | 0.515 | -4.9  | 94    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.186 | 0.186 | 0.0   | 89    | 0.00     |

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 ALS Vial : 17 Sample Multiplier: 1

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   | 100   | 0.00     |
| 50 S  | Toluene-d8                  | 1.216 | 1.289 | -6.0  | 93    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.190 | 0.209 | -10.0 | 99    | 0.00     |
| 52 CM | Toluene                     | 0.901 | 0.971 | -7.8# | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.461 | 0.489 | -6.1  | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.540 | 0.566 | -4.8  | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.280 | 0.286 | -2.1  | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.320 | 0.360 | -12.5 | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.455 | 0.482 | -5.9  | 94    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.132 | 0.137 | -3.8  | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.130 | 0.147 | -13.1 | 102   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.345 | 0.373 | -8.1  | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.266 | 0.277 | -4.1  | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.441 | 0.465 | -5.4  | 94    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.340 | 0.340 | 0.0   | 87    | 0.00     |
| 65 PM | Chlorobenzene               | 1.029 | 1.085 | -5.4  | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.390 | 0.414 | -6.2  | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.798 | 1.921 | -6.8# | 90    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.706 | 0.754 | -6.8  | 90    | 0.00     |
| 69 T  | o-Xylene                    | 0.649 | 0.708 | -9.1  | 92    | 0.00     |
| 70 T  | Styrene                     | 1.120 | 1.249 | -11.5 | 93    | 0.00     |
| 71 P  | Bromoform                   | 0.213 | 0.231 | -8.5  | 99    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.466 | 3.562 | -2.8  | 90    | 0.00     |
| 74 T  | N-amyl acetate              | 0.771 | 0.797 | -3.4  | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.658 | 0.662 | -0.6  | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.486 | 0.480 | 1.2   | 95    | 0.00     |
| 77 T  | Bromobenzene                | 0.846 | 0.849 | -0.4  | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 4.314 | 4.365 | -1.2  | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.508 | 2.545 | -1.5  | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.989 | 3.072 | -2.8  | 91    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.207 | 0.213 | -2.9  | 98    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.644 | 2.713 | -2.6  | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.526 | 2.649 | -4.9  | 90    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.983 | 3.062 | -2.6  | 91    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.784 | 3.827 | -1.1  | 88    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.155 | 3.249 | -3.0  | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.728 | 1.720 | 0.5   | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.710 | 1.727 | -1.0  | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.976 | 2.998 | -0.7  | 88    | 0.00     |
| 90 T  | Hexachloroethane            | 0.653 | 0.648 | 0.8   | 93    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.491 | 1.530 | -2.6  | 97    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.105 | 0.109 | -3.8  | 105   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.893 | 0.911 | -2.0  | 94    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.490 | 0.460 | 6.1   | 85    | 0.00     |
| 95 T  | Naphthalene                 | 1.596 | 1.796 | -12.5 | 103   | 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 | 0.779 | 0.810 | -4.0 | 95    | 0.00     |

(#) = Out of Range

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