

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD111121\  
 Data File : VD071003.D  
 Acq On : 11 Nov 2021 20:43  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 12 08:05:24 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D110921S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 10 03:55:51 2021  
 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    | 67    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.427 | 0.391 | 8.4    | 65    | 0.00     |
| 3 P   | Chloromethane               | 0.508 | 0.601 | -18.3  | 83    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.489 | 0.599 | -22.5# | 82    | 0.00     |
| 5 T   | Bromomethane                | 0.333 | 0.411 | -23.4  | 89    | 0.00     |
| 6 T   | Chloroethane                | 0.314 | 0.399 | -27.1# | 84    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.787 | 0.808 | -2.7   | 69    | 0.00     |
| 8 T   | Diethyl Ether               | 0.260 | 0.283 | -8.8   | 73    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.485 | 0.484 | 0.2    | 67    | 0.00     |
| 10 T  | Methyl Iodide               | 0.476 | 0.521 | -9.5   | 64    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.039 | 0.039 | 0.0    | 72    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.475 | 0.477 | -0.4#  | 67    | 0.00     |
| 13 T  | Acrolein                    | 0.013 | 0.010 | 23.1   | 65    | 0.00     |
| 14 T  | Allyl chloride              | 0.989 | 1.009 | -2.0   | 67    | 0.00     |
| 15 T  | Acrylonitrile               | 0.125 | 0.140 | -12.0  | 73    | 0.00     |
| 16 T  | Acetone                     | 0.133 | 0.121 | 9.0    | 58    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.533 | 1.460 | 4.8    | 64    | 0.00     |
| 18 T  | Methyl Acetate              | 0.457 | 0.527 | -15.3  | 77    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.226 | 1.399 | -14.1  | 76    | 0.00     |
| 20 T  | Methylene Chloride          | 0.665 | 0.678 | -2.0   | 78    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.544 | 0.569 | -4.6   | 69    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.966 | 2.172 | -10.5  | 72    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.944 | 1.029 | -9.0   | 70    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.050 | 1.143 | -8.9   | 72    | 0.00     |
| 25 T  | 2-Butanone                  | 0.169 | 0.176 | -4.1   | 67    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.886 | 0.859 | 3.0    | 64    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.622 | 0.677 | -8.8   | 72    | 0.00     |
| 28 T  | Bromochloromethane          | 0.445 | 0.508 | -14.2  | 74    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.108 | 0.120 | -11.1  | 74    | 0.00     |
| 30 C  | Chloroform                  | 0.998 | 1.129 | -13.1# | 75    | 0.00     |
| 31 T  | Cyclohexane                 | 1.095 | 0.976 | 10.9   | 64    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.857 | 0.927 | -8.2   | 71    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.532 | 0.556 | -4.5   | 73    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 68    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.282 | 0.284 | -0.7   | 73    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.446 | 0.450 | -0.9   | 68    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.204 | 0.225 | -10.3  | 74    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.411 | 0.430 | -4.6   | 71    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.577 | 0.531 | 8.0    | 63    | 0.00     |
| 40 TM | Benzene                     | 1.257 | 1.329 | -5.7   | 72    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.138 | 0.140 | -1.4   | 77    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.356 | 0.402 | -12.9  | 75    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.431 | 0.481 | -11.6  | 75    | 0.00     |
| 44 TM | Trichloroethene             | 0.324 | 0.342 | -5.6   | 72    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.340 | 0.361 | -6.2#  | 72    | 0.00     |
| 46 T  | Dibromomethane              | 0.162 | 0.182 | -12.3  | 75    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.428 | 0.479 | -11.9  | 75    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.211 | 0.213 | -0.9   | 68    | 0.00     |

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 ALS Vial : 24 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   | 78    | 0.00     |
| 50 S  | Toluene-d8                  | 1.105 | 1.062 | 3.9   | 69    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.209 | 0.236 | -12.9 | 76    | 0.00     |
| 52 CM | Toluene                     | 0.793 | 0.834 | -5.2# | 71    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.432 | 0.446 | -3.2  | 71    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.509 | 0.516 | -1.4  | 70    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.222 | 0.246 | -10.8 | 76    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.315 | 0.349 | -10.8 | 73    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.404 | 0.441 | -9.2  | 74    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.164 | 0.163 | 0.6   | 67    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.152 | 0.160 | -5.3  | 70    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.267 | 0.305 | -14.2 | 76    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.216 | 0.242 | -12.0 | 76    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.398 | 0.386 | 3.0   | 70    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 70    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.292 | 0.310 | -6.2  | 75    | 0.00     |
| 65 PM | Chlorobenzene               | 0.892 | 0.959 | -7.5  | 74    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.317 | 0.345 | -8.8  | 74    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.689 | 1.740 | -3.0# | 71    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.631 | 0.657 | -4.1  | 73    | 0.00     |
| 69 T  | o-Xylene                    | 0.601 | 0.631 | -5.0  | 72    | 0.00     |
| 70 T  | Styrene                     | 1.017 | 1.100 | -8.2  | 75    | 0.00     |
| 71 P  | Bromoform                   | 0.165 | 0.181 | -9.7  | 76    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 73    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.602 | 3.591 | 0.3   | 71    | 0.00     |
| 74 T  | N-amyl acetate              | 1.029 | 1.067 | -3.7  | 74    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.620 | 0.671 | -8.2  | 76    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.427 | 0.524 | -22.7 | 90    | -0.01    |
| 77 T  | Bromobenzene                | 0.770 | 0.812 | -5.5  | 76    | 0.00     |
| 78 T  | n-propylbenzene             | 4.463 | 4.418 | 1.0   | 71    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.545 | 2.545 | 0.0   | 72    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.966 | 3.004 | -1.3  | 73    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.204 | 0.182 | 10.8  | 62    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.626 | 2.634 | -0.3  | 72    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.555 | 2.561 | -0.2  | 72    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.905 | 2.957 | -1.8  | 73    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.841 | 3.798 | 1.1   | 71    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.084 | 3.136 | -1.7  | 72    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.505 | 1.570 | -4.3  | 75    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.507 | 1.551 | -2.9  | 76    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.099 | 3.061 | 1.2   | 69    | 0.00     |
| 90 T  | Hexachloroethane            | 0.610 | 0.623 | -2.1  | 72    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.304 | 1.399 | -7.3  | 76    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.102 | 0.106 | -3.9  | 75    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.834 | 0.844 | -1.2  | 72    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.421 | 0.446 | -5.9  | 73    | 0.00     |
| 95 T  | Naphthalene                 | 1.593 | 1.708 | -7.2  | 76    | 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 | 0.701 | 0.757 | -8.0 | 76    | 0.00     |

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