

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD121521\  
 Data File : VD071333.D  
 Acq On : 15 Dec 2021 10:09  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 16 04:23:37 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 29 17:54:09 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    | 86    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.426 | 0.348 | 18.3   | 76    | 0.00     |
| 3 P   | Chloromethane               | 0.564 | 0.580 | -2.8   | 94    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.629 | 0.693 | -10.2# | 96    | 0.00     |
| 5 T   | Bromomethane                | 0.454 | 0.486 | -7.0   | 98    | 0.00     |
| 6 T   | Chloroethane                | 0.433 | 0.518 | -19.6  | 102   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.853 | 0.870 | -2.0   | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 0.231 | 0.239 | -3.5   | 90    | -0.01    |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.503 | 0.522 | -3.8   | 89    | 0.00     |
| 10 T  | Methyl Iodide               | 0.509 | 0.488 | 4.1    | 75    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.065 | 0.048 | 26.2#  | 111   | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.464 | 0.444 | 4.3#   | 84    | 0.00     |
| 13 T  | Acrolein                    | 0.040 | 0.051 | -27.5# | 129   | 0.00     |
| 14 T  | Allyl chloride              | 0.882 | 0.884 | -0.2   | 85    | 0.00     |
| 15 T  | Acrylonitrile               | 0.112 | 0.133 | -18.8  | 106   | 0.00     |
| 16 T  | Acetone                     | 0.140 | 0.173 | -23.6  | 110   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.359 | 1.176 | 13.5   | 76    | 0.00     |
| 18 T  | Methyl Acetate              | 0.433 | 0.477 | -10.2  | 106   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.138 | 1.254 | -10.2  | 96    | 0.00     |
| 20 T  | Methylene Chloride          | 0.737 | 0.601 | 18.5   | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.523 | 0.541 | -3.4   | 89    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.766 | 2.005 | -13.5  | 96    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.837 | 0.962 | -14.9  | 97    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.016 | 1.129 | -11.1  | 93    | 0.00     |
| 25 T  | 2-Butanone                  | 0.161 | 0.191 | -18.6  | 106   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.924 | 0.930 | -0.6   | 86    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.591 | 0.631 | -6.8   | 88    | 0.00     |
| 28 T  | Bromochloromethane          | 0.441 | 0.487 | -10.4  | 95    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.093 | 0.111 | -19.4  | 112   | 0.00     |
| 30 C  | Chloroform                  | 1.020 | 1.157 | -13.4# | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 0.998 | 0.907 | 9.1    | 83    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.915 | 1.002 | -9.5   | 91    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.587 | 0.613 | -4.4   | 99    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 84    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.318 | 0.352 | -10.7  | 97    | -0.01    |
| 36 T  | 1,1-Dichloropropene         | 0.467 | 0.503 | -7.7   | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.202 | 0.231 | -14.4  | 107   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.461 | 0.516 | -11.9  | 93    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.562 | 0.540 | 3.9    | 80    | 0.00     |
| 40 TM | Benzene                     | 1.269 | 1.376 | -8.4   | 90    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.119 | 0.140 | -17.6  | 115   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.387 | 0.460 | -18.9  | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.398 | 0.465 | -16.8  | 102   | 0.00     |
| 44 TM | Trichloroethene             | 0.338 | 0.354 | -4.7   | 87    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.334 | 0.383 | -14.7# | 94    | 0.00     |
| 46 T  | Dibromomethane              | 0.173 | 0.202 | -16.8  | 100   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.458 | 0.539 | -17.7  | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.198 | 0.235 | -18.7  | 103   | 0.00     |

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 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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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    | 110   | -0.01    |
| 50 S  | Toluene-d8                  | 1.212 | 1.229 | -1.4   | 90    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.200 | 0.246 | -23.0  | 109   | 0.00     |
| 52 CM | Toluene                     | 0.805 | 0.888 | -10.3# | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.421 | 0.470 | -11.6  | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.500 | 0.551 | -10.2  | 90    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.227 | 0.269 | -18.5  | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.286 | 0.329 | -15.0  | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.399 | 0.473 | -18.5  | 99    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.155 | 0.167 | -7.7   | 100   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.147 | 0.181 | -23.1  | 107   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.282 | 0.340 | -20.6  | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.218 | 0.247 | -13.3  | 98    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.420 | 0.458 | -9.0   | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 88    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.317 | 0.311 | 1.9    | 85    | 0.00     |
| 65 PM | Chlorobenzene               | 0.928 | 1.004 | -8.2   | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.339 | 0.383 | -13.0  | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.746 | 1.910 | -9.4#  | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.659 | 0.715 | -8.5   | 92    | 0.00     |
| 69 T  | o-Xylene                    | 0.620 | 0.662 | -6.8   | 91    | 0.00     |
| 70 T  | Styrene                     | 1.044 | 1.157 | -10.8  | 93    | 0.00     |
| 71 P  | Bromoform                   | 0.175 | 0.207 | -18.3  | 105   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.620 | 3.676 | -1.5   | 93    | 0.00     |
| 74 T  | N-amyl acetate              | 0.876 | 0.939 | -7.2   | 104   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.596 | 0.658 | -10.4  | 105   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.476 | 0.446 | 6.3    | 99    | 0.00     |
| 77 T  | Bromobenzene                | 0.784 | 0.802 | -2.3   | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 4.509 | 4.581 | -1.6   | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.530 | 2.536 | -0.2   | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.985 | 3.034 | -1.6   | 92    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.180 | 0.183 | -1.7   | 99    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.627 | 2.669 | -1.6   | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.564 | 2.596 | -1.2   | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.915 | 3.011 | -3.3   | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.916 | 4.013 | -2.5   | 93    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.203 | 3.341 | -4.3   | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.561 | 1.598 | -2.4   | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.547 | 1.602 | -3.6   | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.127 | 3.246 | -3.8   | 93    | 0.00     |
| 90 T  | Hexachloroethane            | 0.607 | 0.649 | -6.9   | 96    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.328 | 1.424 | -7.2   | 100   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.097 | 0.104 | -7.2   | 108   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.828 | 0.861 | -4.0   | 95    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.469 | 0.476 | -1.5   | 91    | 0.00     |
| 95 T  | Naphthalene                 | 1.460 | 1.560 | -6.8   | 100   | 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 | 0.703 | 0.733 | -4.3 | 95    | 0.00     |

(#) = Out of Range

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