

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD042221\  
 Data File : VD068943.D  
 Acq On : 22 Apr 2021 10:19  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 23 08:42:44 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D040721S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 08 03:50:31 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   | 109   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.495 | 0.465 | 6.1   | 105   | 0.00     |
| 3 P   | Chloromethane               | 0.582 | 0.472 | 18.9  | 91    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.732 | 0.656 | 10.4# | 101   | 0.00     |
| 5 T   | Bromomethane                | 0.547 | 0.525 | 4.0   | 114   | 0.00     |
| 6 T   | Chloroethane                | 0.481 | 0.436 | 9.4   | 102   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.861 | 0.906 | -5.2  | 121   | 0.00     |
| 8 T   | Diethyl Ether               | 0.233 | 0.212 | 9.0   | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.520 | 0.553 | -6.3  | 112   | 0.00     |
| 10 T  | Methyl Iodide               | 0.538 | 0.592 | -10.0 | 102   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.034 | 0.021 | 38.2# | 77    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.501 | 0.495 | 1.2#  | 105   | 0.00     |
| 13 T  | Acrolein                    | 0.021 | 0.014 | 33.3# | 72    | 0.00     |
| 14 T  | Allyl chloride              | 0.564 | 0.506 | 10.3  | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 0.104 | 0.080 | 23.1  | 83    | 0.00     |
| 16 T  | Acetone                     | 0.073 | 0.084 | -15.1 | 126   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.620 | 1.499 | 7.5   | 96    | 0.00     |
| 18 T  | Methyl Acetate              | 0.201 | 0.170 | 15.4  | 92    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.110 | 0.923 | 16.8  | 88    | 0.00     |
| 20 T  | Methylene Chloride          | 0.679 | 0.565 | 16.8  | 96    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.643 | 0.546 | 15.1  | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.367 | 1.154 | 15.6  | 89    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.724 | 0.620 | 14.4  | 86    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.030 | 0.907 | 11.9  | 97    | 0.00     |
| 25 T  | 2-Butanone                  | 0.104 | 0.093 | 10.6  | 93    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.842 | 0.878 | -4.3  | 118   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.639 | 0.645 | -0.9  | 109   | 0.00     |
| 28 T  | Bromochloromethane          | 0.372 | 0.365 | 1.9   | 106   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.070 | 0.055 | 21.4  | 81    | 0.00     |
| 30 C  | Chloroform                  | 1.128 | 1.029 | 8.8#  | 100   | 0.00     |
| 31 T  | Cyclohexane                 | 0.879 | 0.752 | 14.4  | 96    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.986 | 0.936 | 5.1   | 104   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.528 | 0.434 | 17.8  | 91    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.325 | 0.322 | 0.9   | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.506 | 0.510 | -0.8  | 100   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.149 | 0.140 | 6.0   | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.501 | 0.548 | -9.4  | 108   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.590 | 0.622 | -5.4  | 99    | 0.00     |
| 40 TM | Benzene                     | 1.481 | 1.452 | 2.0   | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.088 | 0.077 | 12.5  | 104   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.391 | 0.368 | 5.9   | 93    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.303 | 0.260 | 14.2  | 84    | 0.00     |
| 44 TM | Trichloroethene             | 0.409 | 0.431 | -5.4  | 105   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.354 | 0.336 | 5.1#  | 95    | 0.00     |
| 46 T  | Dibromomethane              | 0.197 | 0.195 | 1.0   | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.515 | 0.507 | 1.6   | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.149 | 0.136 | 8.7   | 84    | 0.00     |

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 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 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   | 87    | -0.01    |
| 50 S  | Toluene-d8                  | 1.227 | 1.199 | 2.3   | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.153 | 0.138 | 9.8   | 84    | 0.00     |
| 52 CM | Toluene                     | 0.938 | 0.973 | -3.7# | 100   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.456 | 0.448 | 1.8   | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.546 | 0.542 | 0.7   | 96    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.279 | 0.269 | 3.6   | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.287 | 0.275 | 4.2   | 88    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.459 | 0.441 | 3.9   | 94    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.140 | 0.142 | -1.4  | 91    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.102 | 0.101 | 1.0   | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.349 | 0.358 | -2.6  | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.271 | 0.261 | 3.7   | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.407 | 0.392 | 3.7   | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.350 | 0.373 | -6.6  | 105   | 0.00     |
| 65 PM | Chlorobenzene               | 1.082 | 1.128 | -4.3  | 100   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.389 | 0.408 | -4.9  | 101   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.874 | 2.020 | -7.8# | 100   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.723 | 0.790 | -9.3  | 102   | 0.00     |
| 69 T  | o-Xylene                    | 0.658 | 0.706 | -7.3  | 99    | 0.00     |
| 70 T  | Styrene                     | 1.146 | 1.227 | -7.1  | 98    | 0.00     |
| 71 P  | Bromoform                   | 0.208 | 0.214 | -2.9  | 99    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.651 | 3.840 | -5.2  | 102   | 0.00     |
| 74 T  | N-amyl acetate              | 0.619 | 0.533 | 13.9  | 82    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.682 | 0.627 | 8.1   | 92    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.457 | 0.426 | 6.8   | 95    | 0.00     |
| 77 T  | Bromobenzene                | 0.878 | 0.897 | -2.2  | 104   | 0.00     |
| 78 T  | n-propylbenzene             | 4.434 | 4.682 | -5.6  | 102   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.477 | 2.487 | -0.4  | 99    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.052 | 3.242 | -6.2  | 101   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.197 | 0.186 | 5.6   | 88    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.626 | 2.647 | -0.8  | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.590 | 2.805 | -8.3  | 104   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.083 | 3.224 | -4.6  | 99    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.654 | 3.988 | -9.1  | 104   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.338 | 3.619 | -8.4  | 103   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.739 | 1.779 | -2.3  | 101   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.721 | 1.714 | 0.4   | 100   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.144 | 3.354 | -6.7  | 101   | 0.00     |
| 90 T  | Hexachloroethane            | 0.665 | 0.686 | -3.2  | 103   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.505 | 1.493 | 0.8   | 98    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.104 | 0.091 | 12.5  | 89    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.931 | 0.954 | -2.5  | 101   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.533 | 0.603 | -13.1 | 108   | 0.00     |
| 95 T  | Naphthalene                 | 1.622 | 1.612 | 0.6   | 92    | 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 | 0.814 | 0.819 | -0.6 | 97    | 0.00     |

(#) = Out of Range

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