

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052022\  
 Data File : VD073209.D  
 Acq On : 21 May 2022 03:59  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 21 05:18:16 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 19 15:13:42 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   | 87    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.500 | 0.413 | 17.4  | 82    | 0.00     |
| 3 P   | Chloromethane               | 0.565 | 0.513 | 9.2   | 90    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.517 | 0.460 | 11.0# | 83    | 0.00     |
| 5 T   | Bromomethane                | 0.374 | 0.342 | 8.6   | 88    | 0.00     |
| 6 T   | Chloroethane                | 0.318 | 0.309 | 2.8   | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.913 | 0.849 | 7.0   | 86    | 0.00     |
| 8 T   | Diethyl Ether               | 0.251 | 0.268 | -6.8  | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.545 | 0.507 | 7.0   | 87    | -0.01    |
| 10 T  | Methyl Iodide               | 0.588 | 0.548 | 6.8   | 81    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.086 | 0.038 | 55.8# | 74    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.502 | 0.483 | 3.8#  | 86    | 0.00     |
| 13 T  | Acrolein                    | 0.039 | 0.037 | 5.1   | 99    | 0.00     |
| 14 T  | Allyl chloride              | 0.811 | 0.779 | 3.9   | 86    | 0.00     |
| 15 T  | Acrylonitrile               | 0.115 | 0.133 | -15.7 | 103   | 0.00     |
| 16 T  | Acetone                     | 0.096 | 0.093 | 3.1   | 98    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.666 | 1.491 | 10.5  | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 0.266 | 0.288 | -8.3  | 101   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.145 | 1.283 | -12.1 | 98    | 0.00     |
| 20 T  | Methylene Chloride          | 0.716 | 0.715 | 0.1   | 105   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.608 | 0.616 | -1.3  | 91    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.700 | 1.884 | -10.8 | 95    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.907 | 1.006 | -10.9 | 96    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.091 | 1.123 | -2.9  | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 0.140 | 0.154 | -10.0 | 102   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.931 | 0.810 | 13.0  | 80    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.672 | 0.697 | -3.7  | 92    | 0.00     |
| 28 T  | Bromochloromethane          | 0.376 | 0.425 | -13.0 | 100   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.091 | 0.103 | -13.2 | 101   | 0.00     |
| 30 C  | Chloroform                  | 1.139 | 1.211 | -6.3# | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 0.966 | 0.845 | 12.5  | 81    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.997 | 0.983 | 1.4   | 90    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.553 | 0.620 | -12.1 | 102   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.330 | 0.349 | -5.8  | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.496 | 0.467 | 5.8   | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.196 | 0.206 | -5.1  | 101   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.503 | 0.469 | 6.8   | 86    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.553 | 0.490 | 11.4  | 80    | 0.00     |
| 40 TM | Benzene                     | 1.430 | 1.441 | -0.8  | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.114 | 0.106 | 7.0   | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.398 | 0.411 | -3.3  | 98    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.362 | 0.389 | -7.5  | 100   | 0.00     |
| 44 TM | Trichloroethene             | 0.381 | 0.376 | 1.3   | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.360 | 0.374 | -3.9# | 97    | 0.00     |
| 46 T  | Dibromomethane              | 0.198 | 0.206 | -4.0  | 99    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.506 | 0.527 | -4.2  | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.182 | 0.187 | -2.7  | 95    | 0.00     |

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 ALS Vial : 25 Sample Multiplier: 1

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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   | 102   | 0.00     |
| 50 S  | Toluene-d8                  | 1.216 | 1.288 | -5.9  | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.188 | 0.212 | -12.8 | 104   | 0.00     |
| 52 CM | Toluene                     | 0.904 | 0.934 | -3.3# | 94    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.457 | 0.470 | -2.8  | 97    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.547 | 0.555 | -1.5  | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.267 | 0.289 | -8.2  | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.297 | 0.333 | -12.1 | 97    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.449 | 0.493 | -9.8  | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.122 | 0.141 | -15.6 | 99    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.124 | 0.141 | -13.7 | 103   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.334 | 0.365 | -9.3  | 103   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.256 | 0.270 | -5.5  | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.427 | 0.456 | -6.8  | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.327 | 0.300 | 8.3   | 90    | 0.00     |
| 65 PM | Chlorobenzene               | 1.026 | 1.036 | -1.0  | 98    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.380 | 0.393 | -3.4  | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.801 | 1.831 | -1.7# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.700 | 0.708 | -1.1  | 93    | 0.00     |
| 69 T  | o-Xylene                    | 0.643 | 0.663 | -3.1  | 95    | 0.00     |
| 70 T  | Styrene                     | 1.106 | 1.180 | -6.7  | 97    | 0.00     |
| 71 P  | Bromoform                   | 0.196 | 0.211 | -7.7  | 105   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.564 | 3.560 | 0.1   | 93    | 0.00     |
| 74 T  | N-amyl acetate              | 0.778 | 0.809 | -4.0  | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.657 | 0.701 | -6.7  | 106   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.491 | 0.483 | 1.6   | 97    | 0.00     |
| 77 T  | Bromobenzene                | 0.839 | 0.841 | -0.2  | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 4.475 | 4.421 | 1.2   | 92    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.584 | 2.571 | 0.5   | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.019 | 3.069 | -1.7  | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.204 | 0.216 | -5.9  | 100   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.708 | 2.750 | -1.6  | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.545 | 2.482 | 2.5   | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.983 | 3.085 | -3.4  | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.886 | 3.860 | 0.7   | 93    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.167 | 3.125 | 1.3   | 92    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.691 | 1.712 | -1.2  | 99    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.707 | 1.643 | 3.7   | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.018 | 2.905 | 3.7   | 89    | 0.00     |
| 90 T  | Hexachloroethane            | 0.655 | 0.653 | 0.3   | 98    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.463 | 1.500 | -2.5  | 100   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.101 | 0.111 | -9.9  | 110   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.831 | 0.820 | 1.3   | 93    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.468 | 0.429 | 8.3   | 93    | 0.00     |
| 95 T  | Naphthalene                 | 1.466 | 1.625 | -10.8 | 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 | 0.737 | 0.747 | -1.4 | 96    | 0.00     |

(#) = Out of Range

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