

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD041822\  
 Data File : VD072591.D  
 Acq On : 18 Apr 2022 11:43  
 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 19 02:48:38 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 30 02:44:36 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   | 82    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.397 | 0.364 | 8.3   | 67    | 0.00     |
| 3 P   | Chloromethane               | 0.367 | 0.347 | 5.4   | 65    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.385 | 0.374 | 2.9#  | 66    | 0.00     |
| 5 T   | Bromomethane                | 0.283 | 0.275 | 2.8   | 70    | 0.00     |
| 6 T   | Chloroethane                | 0.270 | 0.264 | 2.2   | 68    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.861 | 0.858 | 0.3   | 71    | 0.00     |
| 8 T   | Diethyl Ether               | 0.256 | 0.245 | 4.3   | 71    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.574 | 0.567 | 1.2   | 73    | 0.00     |
| 10 T  | Methyl Iodide               | 0.457 | 0.416 | 9.0   | 59    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.032 | 0.034 | -6.3  | 86    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.449 | 0.440 | 2.0#  | 68    | 0.00     |
| 13 T  | Acrolein                    | 0.014 | 0.006 | 57.1# | 56    | 0.00     |
| 14 T  | Allyl chloride              | 0.721 | 0.645 | 10.5  | 62    | 0.00     |
| 15 T  | Acrylonitrile               | 0.128 | 0.123 | 3.9   | 74    | -0.01    |
| 16 T  | Acetone                     | 0.113 | 0.107 | 5.3   | 72    | 0.00     |
| 17 T  | Carbon Disulfide            | 0.795 | 0.885 | -11.3 | 66    | 0.00     |
| 18 T  | Methyl Acetate              | 0.318 | 0.267 | 16.0  | 75    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.311 | 1.285 | 2.0   | 73    | 0.00     |
| 20 T  | Methylene Chloride          | 0.671 | 0.580 | 13.6  | 70    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.502 | 0.521 | -3.8  | 70    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.804 | 1.705 | 5.5   | 69    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.871 | 0.909 | -4.4  | 70    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.087 | 1.039 | 4.4   | 71    | 0.00     |
| 25 T  | 2-Butanone                  | 0.156 | 0.150 | 3.8   | 72    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.966 | 0.962 | 0.4   | 75    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.682 | 0.657 | 3.7   | 70    | 0.00     |
| 28 T  | Bromochloromethane          | 0.466 | 0.430 | 7.7   | 72    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.094 | 0.095 | -1.1  | 74    | 0.00     |
| 30 C  | Chloroform                  | 1.223 | 1.184 | 3.2#  | 74    | 0.00     |
| 31 T  | Cyclohexane                 | 0.791 | 0.755 | 4.6   | 67    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.037 | 1.040 | -0.3  | 74    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.605 | 0.548 | 9.4   | 74    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 76    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.389 | 0.393 | -1.0  | 76    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.455 | 0.500 | -9.9  | 70    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.206 | 0.215 | -4.4  | 73    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.535 | 0.593 | -10.8 | 73    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.498 | 0.547 | -9.8  | 67    | 0.00     |
| 40 TM | Benzene                     | 1.357 | 1.474 | -8.6  | 71    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.112 | 0.124 | -10.7 | 83    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.415 | 0.443 | -6.7  | 73    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.395 | 0.420 | -6.3  | 73    | 0.00     |
| 44 TM | Trichloroethene             | 0.385 | 0.414 | -7.5  | 71    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.377 | 0.396 | -5.0# | 72    | 0.00     |
| 46 T  | Dibromomethane              | 0.198 | 0.222 | -12.1 | 75    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.569 | 0.612 | -7.6  | 76    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.192 | 0.194 | -1.0  | 71    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

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 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 | 0.003 | -50.0# | 80    | 0.00     |
| 50 S  | Toluene-d8                  | 1.351 | 1.365 | -1.0   | 76    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.212 | 0.232 | -9.4   | 75    | 0.00     |
| 52 CM | Toluene                     | 0.902 | 0.997 | -10.5# | 72    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.496 | 0.544 | -9.7   | 74    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.586 | 0.626 | -6.8   | 72    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.300 | 0.335 | -11.7  | 78    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.339 | 0.379 | -11.8  | 73    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.496 | 0.550 | -10.9  | 78    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.148 | 0.160 | -8.1   | 75    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.144 | 0.164 | -13.9  | 77    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.387 | 0.433 | -11.9  | 79    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.267 | 0.307 | -15.0  | 79    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.528 | 0.540 | -2.3   | 80    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 78    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.327 | 0.359 | -9.8   | 76    | 0.00     |
| 65 PM | Chlorobenzene               | 1.118 | 1.166 | -4.3   | 74    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.447 | 0.469 | -4.9   | 76    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.951 | 2.050 | -5.1#  | 72    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.740 | 0.804 | -8.6   | 74    | 0.00     |
| 69 T  | o-Xylene                    | 0.714 | 0.755 | -5.7   | 74    | 0.00     |
| 70 T  | Styrene                     | 1.258 | 1.356 | -7.8   | 74    | 0.00     |
| 71 P  | Bromoform                   | 0.237 | 0.264 | -11.4  | 83    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 84    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.038 | 4.021 | 0.4    | 74    | 0.00     |
| 74 T  | N-amyl acetate              | 0.847 | 0.819 | 3.3    | 74    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.765 | 0.764 | 0.1    | 83    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.545 | 0.558 | -2.4   | 74    | 0.00     |
| 77 T  | Bromobenzene                | 0.905 | 0.918 | -1.4   | 78    | 0.00     |
| 78 T  | n-propylbenzene             | 4.871 | 4.922 | -1.0   | 75    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.849 | 2.784 | 2.3    | 75    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.458 | 3.410 | 1.4    | 76    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.222 | 0.229 | -3.2   | 80    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.967 | 2.926 | 1.4    | 77    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.994 | 3.028 | -1.1   | 78    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.382 | 3.384 | -0.1   | 77    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.510 | 4.504 | 0.1    | 76    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.686 | 3.706 | -0.5   | 76    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.875 | 1.891 | -0.9   | 80    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.890 | 1.834 | 3.0    | 78    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.512 | 3.500 | 0.3    | 75    | 0.00     |
| 90 T  | Hexachloroethane            | 0.755 | 0.739 | 2.1    | 79    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.654 | 1.654 | 0.0    | 79    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.113 | 0.127 | -12.4  | 92    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.025 | 1.031 | -0.6   | 79    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.574 | 0.587 | -2.3   | 82    | 0.00     |
| 95 T  | Naphthalene                 | 1.992 | 1.934 | 2.9    | 77    | 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 | 0.895 | 0.909 | -1.6 | 80    | 0.00     |

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