

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD101521\  
 Data File : VD070722.D  
 Acq On : 15 Oct 2021 18:05  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 18 08:33:50 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D101521S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 18 08:32:03 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   | 97    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.585 | 0.542 | 7.4   | 91    | 0.00     |
| 3 P   | Chloromethane               | 0.867 | 0.823 | 5.1   | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.889 | 0.831 | 6.5#  | 92    | 0.00     |
| 5 T   | Bromomethane                | 0.542 | 0.499 | 7.9   | 97    | 0.00     |
| 6 T   | Chloroethane                | 0.560 | 0.537 | 4.1   | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.005 | 0.928 | 7.7   | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 0.268 | 0.278 | -3.7  | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.601 | 0.558 | 7.2   | 94    | 0.00     |
| 10 T  | Methyl Iodide               | 0.550 | 0.581 | -5.6  | 91    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.033 | 0.033 | 0.0   | 104   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.544 | 0.523 | 3.9#  | 96    | 0.00     |
| 13 T  | Acrolein                    | 0.032 | 0.028 | 12.5  | 94    | 0.00     |
| 14 T  | Allyl chloride              | 1.029 | 1.038 | -0.9  | 96    | 0.00     |
| 15 T  | Acrylonitrile               | 0.141 | 0.145 | -2.8  | 98    | 0.00     |
| 16 T  | Acetone                     | 0.143 | 0.131 | 8.4   | 82    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.980 | 1.960 | 1.0   | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 0.497 | 0.496 | 0.2   | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.175 | 1.284 | -9.3  | 100   | 0.00     |
| 20 T  | Methylene Chloride          | 0.922 | 0.760 | 17.6  | 102   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.623 | 0.631 | -1.3  | 96    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.003 | 2.187 | -9.2  | 98    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.946 | 1.072 | -13.3 | 100   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.248 | 1.232 | 1.3   | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 0.176 | 0.185 | -5.1  | 97    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.987 | 0.943 | 4.5   | 95    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.669 | 0.675 | -0.9  | 97    | 0.00     |
| 28 T  | Bromochloromethane          | 0.496 | 0.505 | -1.8  | 104   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.108 | 0.119 | -10.2 | 102   | 0.00     |
| 30 C  | Chloroform                  | 1.219 | 1.179 | 3.3#  | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 1.198 | 1.146 | 4.3   | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.034 | 0.999 | 3.4   | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.592 | 0.549 | 7.3   | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.320 | 0.301 | 5.9   | 96    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.557 | 0.557 | 0.0   | 96    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.231 | 0.254 | -10.0 | 100   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.533 | 0.520 | 2.4   | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.628 | 0.644 | -2.5  | 93    | 0.00     |
| 40 TM | Benzene                     | 1.604 | 1.611 | -0.4  | 96    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.132 | 0.142 | -7.6  | 89    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.455 | 0.465 | -2.2  | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.440 | 0.473 | -7.5  | 100   | 0.00     |
| 44 TM | Trichloroethene             | 0.377 | 0.368 | 2.4   | 97    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.424 | 0.436 | -2.8# | 99    | 0.00     |
| 46 T  | Dibromomethane              | 0.203 | 0.205 | -1.0  | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.538 | 0.541 | -0.6  | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.216 | 0.243 | -12.5 | 103   | 0.00     |

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 ALS Vial : 18 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 | 0.002 | 0.0   | 104   | 0.00     |
| 50 S  | Toluene-d8                  | 1.227 | 1.165 | 5.1   | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.232 | 0.256 | -10.3 | 101   | 0.00     |
| 52 CM | Toluene                     | 0.955 | 0.993 | -4.0# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.481 | 0.501 | -4.2  | 99    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.576 | 0.590 | -2.4  | 99    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.279 | 0.284 | -1.8  | 99    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.333 | 0.372 | -11.7 | 102   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.495 | 0.507 | -2.4  | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.147 | 0.160 | -8.8  | 104   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.163 | 0.179 | -9.8  | 98    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.320 | 0.323 | -0.9  | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.255 | 0.260 | -2.0  | 98    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.423 | 0.405 | 4.3   | 95    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.336 | 0.325 | 3.3   | 97    | 0.00     |
| 65 PM | Chlorobenzene               | 1.025 | 1.007 | 1.8   | 98    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.379 | 0.373 | 1.6   | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.875 | 1.903 | -1.5# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.710 | 0.732 | -3.1  | 96    | 0.00     |
| 69 T  | o-Xylene                    | 0.644 | 0.653 | -1.4  | 96    | 0.00     |
| 70 T  | Styrene                     | 1.120 | 1.193 | -6.5  | 98    | 0.00     |
| 71 P  | Bromoform                   | 0.197 | 0.201 | -2.0  | 102   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.563 | 3.626 | -1.8  | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 0.927 | 0.984 | -6.1  | 101   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.705 | 0.712 | -1.0  | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.432 | 0.463 | -7.2  | 129   | 0.00     |
| 77 T  | Bromobenzene                | 0.807 | 0.817 | -1.2  | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 4.631 | 4.777 | -3.2  | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.676 | 2.709 | -1.2  | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.012 | 3.160 | -4.9  | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.197 | 0.215 | -9.1  | 102   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.831 | 2.817 | 0.5   | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.489 | 2.567 | -3.1  | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.994 | 3.158 | -5.5  | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.911 | 3.987 | -1.9  | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.145 | 3.275 | -4.1  | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.694 | 1.676 | 1.1   | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.672 | 1.636 | 2.2   | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.174 | 3.235 | -1.9  | 94    | 0.00     |
| 90 T  | Hexachloroethane            | 0.679 | 0.638 | 6.0   | 95    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.448 | 1.466 | -1.2  | 99    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.112 | 0.111 | 0.9   | 105   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.828 | 0.862 | -4.1  | 99    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.543 | 0.527 | 2.9   | 95    | 0.00     |
| 95 T  | Naphthalene                 | 1.406 | 1.511 | -7.5  | 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 | 0.736 | 0.761 | -3.4 | 97    | 0.00     |

(#) = Out of Range

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