

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD010522\  
 Data File : VD071606.D  
 Acq On : 05 Jan 2022 11:01  
 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: Jan 05 15:16:23 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D122221S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 23 08:20:24 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    | 83    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.524 | 0.470 | 10.3   | 79    | 0.00     |
| 3 P   | Chloromethane               | 0.671 | 0.613 | 8.6    | 80    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.804 | 0.733 | 8.8#   | 81    | 0.00     |
| 5 T   | Bromomethane                | 0.562 | 0.512 | 8.9    | 85    | 0.03     |
| 6 T   | Chloroethane                | 0.534 | 0.507 | 5.1    | 84    | 0.01     |
| 7 T   | Trichlorofluoromethane      | 0.984 | 1.021 | -3.8   | 91    | 0.01     |
| 8 T   | Diethyl Ether               | 0.282 | 0.266 | 5.7    | 81    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.573 | 0.589 | -2.8   | 92    | 0.01     |
| 10 T  | Methyl Iodide               | 0.557 | 0.597 | -7.2   | 82    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.065 | 0.037 | 43.1#  | 67    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.521 | 0.514 | 1.3#   | 86    | 0.01     |
| 13 T  | Acrolein                    | 0.032 | 0.016 | 50.0#  | 43#   | 0.01     |
| 14 T  | Allyl chloride              | 0.985 | 1.049 | -6.5   | 92    | 0.01     |
| 15 T  | Acrylonitrile               | 0.139 | 0.135 | 2.9    | 81    | 0.00     |
| 16 T  | Acetone                     | 0.167 | 0.180 | -7.8   | 85    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.697 | 1.382 | 18.6   | 72    | 0.00     |
| 18 T  | Methyl Acetate              | 0.515 | 0.489 | 5.0    | 84    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.345 | 1.333 | 0.9    | 83    | 0.00     |
| 20 T  | Methylene Chloride          | 0.811 | 0.693 | 14.5   | 91    | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 0.603 | 0.596 | 1.2    | 87    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.006 | 2.225 | -10.9  | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.034 | 1.085 | -4.9   | 84    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.150 | 1.248 | -8.5   | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 0.199 | 0.197 | 1.0    | 80    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.945 | 1.103 | -16.7  | 99    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.667 | 0.712 | -6.7   | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 0.471 | 0.453 | 3.8    | 78    | 0.01     |
| 29 T  | Tetrahydrofuran             | 0.120 | 0.113 | 5.8    | 77    | 0.00     |
| 30 C  | Chloroform                  | 1.160 | 1.287 | -10.9# | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 1.128 | 1.036 | 8.2    | 84    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.029 | 1.157 | -12.4  | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.664 | 0.651 | 2.0    | 80    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 79    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.336 | 0.351 | -4.5   | 82    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.537 | 0.573 | -6.7   | 91    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.248 | 0.253 | -2.0   | 80    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.530 | 0.598 | -12.8  | 93    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.628 | 0.638 | -1.6   | 86    | 0.00     |
| 40 TM | Benzene                     | 1.443 | 1.551 | -7.5   | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.147 | 0.162 | -10.2  | 79    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.471 | 0.501 | -6.4   | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.492 | 0.482 | 2.0    | 81    | 0.00     |
| 44 TM | Trichloroethene             | 0.376 | 0.392 | -4.3   | 89    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.375 | 0.414 | -10.4# | 94    | 0.00     |
| 46 T  | Dibromomethane              | 0.207 | 0.205 | 1.0    | 81    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.525 | 0.592 | -12.8  | 94    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.243 | 0.251 | -3.3   | 84    | 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) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0    | 74    | 0.00     |
| 50 S  | Toluene-d8                  | 1.270 | 1.285 | -1.2   | 80    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.259 | 0.253 | 2.3    | 79    | 0.00     |
| 52 CM | Toluene                     | 0.917 | 1.008 | -9.9#  | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.491 | 0.529 | -7.7   | 89    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.567 | 0.621 | -9.5   | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.263 | 0.279 | -6.1   | 88    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.346 | 0.353 | -2.0   | 80    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.481 | 0.505 | -5.0   | 86    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.166 | 0.149 | 10.2   | 73    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.183 | 0.186 | -1.6   | 79    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.330 | 0.356 | -7.9   | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.260 | 0.267 | -2.7   | 85    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.451 | 0.455 | -0.9   | 81    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 79    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.347 | 0.357 | -2.9   | 88    | 0.00     |
| 65 PM | Chlorobenzene               | 1.026 | 1.133 | -10.4  | 91    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.375 | 0.421 | -12.3  | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.909 | 2.178 | -14.1# | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.725 | 0.822 | -13.4  | 92    | 0.00     |
| 69 T  | o-Xylene                    | 0.663 | 0.769 | -16.0  | 93    | 0.00     |
| 70 T  | Styrene                     | 1.152 | 1.326 | -15.1  | 92    | 0.00     |
| 71 P  | Bromoform                   | 0.203 | 0.215 | -5.9   | 83    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 82    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.855 | 4.213 | -9.3   | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 1.034 | 0.981 | 5.1    | 78    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.697 | 0.679 | 2.6    | 84    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.594 | 0.598 | -0.7   | 88    | 0.00     |
| 77 T  | Bromobenzene                | 0.858 | 0.864 | -0.7   | 89    | 0.00     |
| 78 T  | n-propylbenzene             | 4.832 | 5.261 | -8.9   | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.700 | 2.874 | -6.4   | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.180 | 3.465 | -9.0   | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.210 | 0.193 | 8.1    | 79    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.801 | 3.024 | -8.0   | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.717 | 3.033 | -11.6  | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.147 | 3.436 | -9.2   | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.142 | 4.602 | -11.1  | 96    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.437 | 3.790 | -10.3  | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.727 | 1.786 | -3.4   | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.694 | 1.776 | -4.8   | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.373 | 3.746 | -11.1  | 96    | 0.00     |
| 90 T  | Hexachloroethane            | 0.651 | 0.726 | -11.5  | 97    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.466 | 1.545 | -5.4   | 91    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.121 | 0.107 | 11.6   | 80    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.893 | 0.904 | -1.2   | 87    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.479 | 0.512 | -6.9   | 93    | 0.00     |
| 95 T  | Naphthalene                 | 1.701 | 1.644 | 3.4    | 80    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.773 | 0.766 | 0.9  | 85    | 0.00     |

(#) = Out of Range

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