

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022621\  
 Data File : VD068469.D  
 Acq On : 26 Feb 2021 21:08  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 26 21:51:27 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D022621S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 26 14:04:14 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   | 103   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.485 | 0.460 | 5.2   | 97    | 0.00     |
| 3 P   | Chloromethane               | 0.613 | 0.608 | 0.8   | 104   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.728 | 0.704 | 3.3#  | 99    | 0.00     |
| 5 T   | Bromomethane                | 0.518 | 0.535 | -3.3  | 112   | 0.00     |
| 6 T   | Chloroethane                | 0.471 | 0.467 | 0.8   | 104   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.831 | 0.822 | 1.1   | 102   | 0.00     |
| 8 T   | Diethyl Ether               | 0.247 | 0.260 | -5.3  | 108   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.506 | 0.493 | 2.6   | 101   | 0.00     |
| 10 T  | Methyl Iodide               | 0.537 | 0.578 | -7.6  | 100   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.027 | 0.026 | 3.7   | 112   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.502 | 0.499 | 0.6#  | 102   | 0.00     |
| 13 T  | Acrolein                    | 0.038 | 0.036 | 5.3   | 94    | 0.00     |
| 14 T  | Allyl chloride              | 0.648 | 0.621 | 4.2   | 97    | 0.00     |
| 15 T  | Acrylonitrile               | 0.104 | 0.105 | -1.0  | 104   | 0.00     |
| 16 T  | Acetone                     | 0.079 | 0.071 | 10.1  | 89    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.645 | 1.633 | 0.7   | 101   | 0.00     |
| 18 T  | Methyl Acetate              | 0.205 | 0.204 | 0.5   | 107   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.089 | 1.134 | -4.1  | 109   | 0.00     |
| 20 T  | Methylene Chloride          | 0.673 | 0.676 | -0.4  | 115   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.600 | 0.603 | -0.5  | 104   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.428 | 1.434 | -0.4  | 102   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.741 | 0.756 | -2.0  | 103   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.979 | 0.995 | -1.6  | 105   | 0.00     |
| 25 T  | 2-Butanone                  | 0.114 | 0.111 | 2.6   | 101   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.815 | 0.785 | 3.7   | 99    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.658 | 0.690 | -4.9  | 108   | 0.00     |
| 28 T  | Bromochloromethane          | 0.382 | 0.375 | 1.8   | 100   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.074 | 0.075 | -1.4  | 104   | 0.00     |
| 30 C  | Chloroform                  | 1.033 | 1.072 | -3.8# | 108   | 0.00     |
| 31 T  | Cyclohexane                 | 0.909 | 0.821 | 9.7   | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.882 | 0.906 | -2.7  | 106   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.500 | 0.497 | 0.6   | 103   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.301 | 0.296 | 1.7   | 104   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.475 | 0.457 | 3.8   | 101   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.158 | 0.152 | 3.8   | 106   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.447 | 0.439 | 1.8   | 104   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.586 | 0.564 | 3.8   | 99    | 0.00     |
| 40 TM | Benzene                     | 1.363 | 1.373 | -0.7  | 107   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.092 | 0.085 | 7.6   | 105   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.358 | 0.362 | -1.1  | 106   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.290 | 0.290 | 0.0   | 104   | 0.00     |
| 44 TM | Trichloroethene             | 0.374 | 0.375 | -0.3  | 107   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.326 | 0.332 | -1.8# | 106   | 0.00     |
| 46 T  | Dibromomethane              | 0.177 | 0.184 | -4.0  | 113   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.459 | 0.472 | -2.8  | 108   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.154 | 0.149 | 3.2   | 103   | 0.00     |

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 ALS Vial : 23 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   | 109   | 0.00     |
| 50 S  | Toluene-d8                  | 1.200 | 1.144 | 4.7   | 102   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.152 | 0.150 | 1.3   | 103   | 0.00     |
| 52 CM | Toluene                     | 0.871 | 0.878 | -0.8# | 106   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.424 | 0.435 | -2.6  | 110   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.517 | 0.521 | -0.8  | 106   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.245 | 0.249 | -1.6  | 107   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.282 | 0.293 | -3.9  | 107   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.428 | 0.428 | 0.0   | 106   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.141 | 0.141 | 0.0   | 105   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.101 | 0.102 | -1.0  | 103   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.304 | 0.317 | -4.3  | 109   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.240 | 0.245 | -2.1  | 108   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.387 | 0.378 | 2.3   | 103   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.327 | 0.322 | 1.5   | 107   | 0.00     |
| 65 PM | Chlorobenzene               | 1.018 | 1.016 | 0.2   | 107   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.354 | 0.361 | -2.0  | 109   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.818 | 1.808 | 0.6#  | 105   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.690 | 0.688 | 0.3   | 105   | 0.00     |
| 69 T  | o-Xylene                    | 0.636 | 0.646 | -1.6  | 105   | 0.00     |
| 70 T  | Styrene                     | 1.087 | 1.120 | -3.0  | 107   | 0.00     |
| 71 P  | Bromoform                   | 0.180 | 0.186 | -3.3  | 109   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.708 | 3.614 | 2.5   | 103   | 0.00     |
| 74 T  | N-amyl acetate              | 0.632 | 0.632 | 0.0   | 105   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.638 | 0.614 | 3.8   | 106   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.444 | 0.430 | 3.2   | 122   | 0.00     |
| 77 T  | Bromobenzene                | 0.846 | 0.843 | 0.4   | 109   | 0.00     |
| 78 T  | n-propylbenzene             | 4.431 | 4.307 | 2.8   | 103   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.459 | 2.433 | 1.1   | 105   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.039 | 3.027 | 0.4   | 105   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.190 | 0.188 | 1.1   | 104   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.588 | 2.551 | 1.4   | 104   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.588 | 2.504 | 3.2   | 101   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.044 | 3.053 | -0.3  | 105   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.656 | 3.572 | 2.3   | 103   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.318 | 3.281 | 1.1   | 103   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.635 | 1.612 | 1.4   | 104   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.619 | 1.598 | 1.3   | 106   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.201 | 3.074 | 4.0   | 99    | 0.00     |
| 90 T  | Hexachloroethane            | 0.660 | 0.678 | -2.7  | 105   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.402 | 1.414 | -0.9  | 108   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.112 | 0.103 | 8.0   | 102   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.083 | 1.092 | -0.8  | 105   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.601 | 0.587 | 2.3   | 102   | 0.00     |
| 95 T  | Naphthalene                 | 1.961 | 2.025 | -3.3  | 108   | 0.00     |

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Quant Title : SW846 8260  
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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 | 0.937 | 0.947 | -1.1 | 108   | 0.00     |

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