

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD101322\  
 Data File : VD074522.D  
 Acq On : 13 Oct 2022 10:36  
 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: Oct 13 16:54:20 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D101122S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 12 13:14:00 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   | 115   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.483 | 0.493 | -2.1  | 112   | 0.00     |
| 3 P   | Chloromethane               | 0.602 | 0.559 | 7.1   | 107   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.622 | 0.640 | -2.9# | 115   | 0.00     |
| 5 T   | Bromomethane                | 0.442 | 0.437 | 1.1   | 128   | 0.00     |
| 6 T   | Chloroethane                | 0.415 | 0.423 | -1.9  | 116   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.952 | 0.954 | -0.2  | 115   | 0.00     |
| 8 T   | Diethyl Ether               | 0.286 | 0.299 | -4.5  | 115   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.640 | 0.644 | -0.6  | 118   | 0.00     |
| 10 T  | Methyl Iodide               | 0.734 | 0.805 | -9.7  | 113   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.090 | 0.040 | 55.6# | 96    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.652 | 0.655 | -0.5# | 116   | 0.00     |
| 13 T  | Acrolein                    | 0.022 | 0.020 | 9.1   | 127   | 0.00     |
| 14 T  | Allyl chloride              | 0.710 | 0.730 | -2.8  | 113   | 0.00     |
| 15 T  | Acrylonitrile               | 0.114 | 0.118 | -3.5  | 115   | 0.00     |
| 16 T  | Acetone                     | 0.093 | 0.103 | -10.8 | 120   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.928 | 1.825 | 5.3   | 109   | 0.00     |
| 18 T  | Methyl Acetate              | 0.295 | 0.270 | 8.5   | 113   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.241 | 1.312 | -5.7  | 114   | 0.00     |
| 20 T  | Methylene Chloride          | 0.967 | 0.708 | 26.8# | 108   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.702 | 0.711 | -1.3  | 112   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.419 | 1.475 | -3.9  | 113   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.616 | 0.664 | -7.8  | 113   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.099 | 1.094 | 0.5   | 112   | 0.00     |
| 25 T  | 2-Butanone                  | 0.128 | 0.132 | -3.1  | 117   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.967 | 0.977 | -1.0  | 117   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.748 | 0.778 | -4.0  | 120   | 0.00     |
| 28 T  | Bromochloromethane          | 0.290 | 0.296 | -2.1  | 118   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.071 | 0.077 | -8.5  | 125   | 0.00     |
| 30 C  | Chloroform                  | 1.064 | 1.123 | -5.5# | 121   | 0.00     |
| 31 T  | Cyclohexane                 | 0.916 | 0.906 | 1.1   | 119   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.964 | 1.025 | -6.3  | 123   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.430 | 0.465 | -8.1  | 120   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 113   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.327 | 0.328 | -0.3  | 120   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.480 | 0.518 | -7.9  | 121   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.157 | 0.169 | -7.6  | 125   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.444 | 0.501 | -12.8 | 124   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.601 | 0.657 | -9.3  | 122   | 0.00     |
| 40 TM | Benzene                     | 1.428 | 1.531 | -7.2  | 119   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.090 | 0.097 | -7.8  | 125   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.337 | 0.349 | -3.6  | 116   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.289 | 0.321 | -11.1 | 121   | 0.00     |
| 44 TM | Trichloroethene             | 0.409 | 0.436 | -6.6  | 123   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.325 | 0.348 | -7.1# | 116   | 0.00     |
| 46 T  | Dibromomethane              | 0.183 | 0.195 | -6.6  | 117   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.452 | 0.488 | -8.0  | 120   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.140 | 0.152 | -8.6  | 124   | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 13 16:54:20 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D101122S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 12 13:14:00 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) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0    | 129   | 0.00     |
| 50 S  | Toluene-d8                  | 1.099 | 1.277 | -16.2  | 116   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.143 | 0.162 | -13.3  | 122   | 0.00     |
| 52 CM | Toluene                     | 0.903 | 0.976 | -8.1#  | 118   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.394 | 0.443 | -12.4  | 120   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.498 | 0.549 | -10.2  | 118   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.245 | 0.271 | -10.6  | 120   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.283 | 0.314 | -11.0  | 120   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.410 | 0.432 | -5.4   | 118   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.053 | 0.057 | -7.5   | 113   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.096 | 0.111 | -15.6  | 123   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.295 | 0.322 | -9.2   | 122   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.228 | 0.248 | -8.8   | 119   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.407 | 0.334 | 17.9   | 112   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 109   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.374 | 0.402 | -7.5   | 124   | 0.00     |
| 65 PM | Chlorobenzene               | 1.073 | 1.179 | -9.9   | 120   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.364 | 0.400 | -9.9   | 120   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.902 | 2.111 | -11.0# | 120   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.759 | 0.798 | -5.1   | 114   | 0.00     |
| 69 T  | o-Xylene                    | 0.706 | 0.729 | -3.3   | 112   | 0.00     |
| 70 T  | Styrene                     | 1.193 | 1.205 | -1.0   | 109   | 0.00     |
| 71 P  | Bromoform                   | 0.186 | 0.186 | 0.0    | 109   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 4.022 | 4.466 | -11.0  | 113   | 0.00     |
| 74 T  | N-amyl acetate              | 0.630 | 0.714 | -13.3  | 113   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.636 | 0.704 | -10.7  | 112   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.427 | 0.505 | -18.3  | 116   | 0.00     |
| 77 T  | Bromobenzene                | 0.910 | 0.993 | -9.1   | 111   | 0.00     |
| 78 T  | n-propylbenzene             | 4.866 | 5.328 | -9.5   | 111   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.612 | 2.833 | -8.5   | 111   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.269 | 3.604 | -10.2  | 110   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.168 | 0.191 | -13.7  | 105   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.622 | 2.886 | -10.1  | 111   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.863 | 3.131 | -9.4   | 110   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.238 | 3.526 | -8.9   | 111   | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.362 | 4.760 | -9.1   | 113   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.622 | 3.971 | -9.6   | 112   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.864 | 1.961 | -5.2   | 108   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.850 | 1.923 | -3.9   | 110   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.383 | 3.778 | -11.7  | 112   | 0.00     |
| 90 T  | Hexachloroethane            | 0.639 | 0.700 | -9.5   | 111   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.590 | 1.723 | -8.4   | 111   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.087 | 0.108 | -24.1  | 120   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.049 | 1.092 | -4.1   | 108   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.545 | 0.587 | -7.7   | 109   | 0.00     |
| 95 T  | Naphthalene                 | 1.980 | 2.154 | -8.8   | 110   | 0.00     |

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Quant Title : SW846 8260  
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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) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.895 | 0.959 | -7.2 | 108   | 0.00     |

(#) = Out of Range

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