

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD111822\  
 Data File : VD074984.D  
 Acq On : 18 Nov 2022 12:10  
 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: Nov 18 22:04:32 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D111122S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 14 00:51:58 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   | 105   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.374 | 0.299 | 20.1  | 96    | 0.00     |
| 3 P   | Chloromethane               | 0.589 | 0.473 | 19.7  | 91    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.701 | 0.616 | 12.1# | 96    | 0.00     |
| 5 T   | Bromomethane                | 0.573 | 0.512 | 10.6  | 106   | 0.00     |
| 6 T   | Chloroethane                | 0.515 | 0.450 | 12.6  | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.799 | 0.743 | 7.0   | 104   | 0.01     |
| 8 T   | Diethyl Ether               | 0.229 | 0.219 | 4.4   | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.510 | 0.484 | 5.1   | 104   | 0.00     |
| 10 T  | Methyl Iodide               | 0.524 | 0.566 | -8.0  | 106   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.028 | 0.021 | 25.0  | 98    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.497 | 0.476 | 4.2#  | 103   | 0.00     |
| 13 T  | Acrolein                    | 0.016 | 0.015 | 6.3   | 121   | 0.00     |
| 14 T  | Allyl chloride              | 0.531 | 0.524 | 1.3   | 103   | 0.00     |
| 15 T  | Acrylonitrile               | 0.090 | 0.087 | 3.3   | 102   | 0.00     |
| 16 T  | Acetone                     | 0.083 | 0.088 | -6.0  | 115   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.413 | 1.230 | 13.0  | 95    | 0.00     |
| 18 T  | Methyl Acetate              | 0.243 | 0.199 | 18.1  | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.994 | 0.961 | 3.3   | 100   | 0.00     |
| 20 T  | Methylene Chloride          | 1.099 | 0.683 | 37.9# | 100   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.563 | 0.534 | 5.2   | 101   | 0.01     |
| 22 T  | Diisopropyl ether           | 1.184 | 1.169 | 1.3   | 99    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.508 | 0.554 | -9.1  | 109   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.884 | 0.846 | 4.3   | 101   | 0.00     |
| 25 T  | 2-Butanone                  | 0.108 | 0.108 | 0.0   | 109   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.831 | 0.787 | 5.3   | 104   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.625 | 0.602 | 3.7   | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 0.285 | 0.273 | 4.2   | 101   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.060 | 0.058 | 3.3   | 100   | 0.00     |
| 30 C  | Chloroform                  | 0.968 | 0.929 | 4.0#  | 103   | 0.00     |
| 31 T  | Cyclohexane                 | 0.729 | 0.658 | 9.7   | 100   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.834 | 0.811 | 2.8   | 102   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.389 | 0.361 | 7.2   | 109   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.308 | 0.321 | -4.2  | 107   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.453 | 0.473 | -4.4  | 102   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.152 | 0.153 | -0.7  | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.426 | 0.460 | -8.0  | 105   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.485 | 0.473 | 2.5   | 95    | 0.00     |
| 40 TM | Benzene                     | 1.303 | 1.414 | -8.5  | 102   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.081 | 0.071 | 12.3  | 87    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.312 | 0.331 | -6.1  | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.268 | 0.282 | -5.2  | 103   | 0.00     |
| 44 TM | Trichloroethene             | 0.344 | 0.340 | 1.2   | 99    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.293 | 0.291 | 0.7#  | 97    | 0.00     |
| 46 T  | Dibromomethane              | 0.164 | 0.158 | 3.7   | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.407 | 0.400 | 1.7   | 97    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.119 | 0.118 | 0.8   | 97    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D111122S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 14 00:51:58 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   | 89    | 0.00     |
| 50 S  | Toluene-d8                  | 1.015 | 0.990 | 2.5   | 102   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.128 | 0.131 | -2.3  | 97    | 0.00     |
| 52 CM | Toluene                     | 0.779 | 0.798 | -2.4# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.359 | 0.371 | -3.3  | 100   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.441 | 0.452 | -2.5  | 98    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.228 | 0.232 | -1.8  | 99    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.246 | 0.256 | -4.1  | 97    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.366 | 0.369 | -0.8  | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.085 | 0.101 | -18.8 | 115   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.089 | 0.096 | -7.9  | 102   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.270 | 0.269 | 0.4   | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.213 | 0.214 | -0.5  | 99    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.312 | 0.322 | -3.2  | 103   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.335 | 0.322 | 3.9   | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 0.978 | 0.977 | 0.1   | 97    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.343 | 0.346 | -0.9  | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.704 | 1.790 | -5.0# | 100   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.679 | 0.708 | -4.3  | 98    | 0.00     |
| 69 T  | o-Xylene                    | 0.625 | 0.651 | -4.2  | 96    | 0.00     |
| 70 T  | Styrene                     | 1.072 | 1.133 | -5.7  | 97    | 0.00     |
| 71 P  | Bromoform                   | 0.177 | 0.181 | -2.3  | 98    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.441 | 3.723 | -8.2  | 99    | 0.00     |
| 74 T  | N-amyl acetate              | 0.566 | 0.583 | -3.0  | 94    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.609 | 0.622 | -2.1  | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.418 | 0.360 | 13.9  | 86    | 0.00     |
| 77 T  | Bromobenzene                | 0.805 | 0.830 | -3.1  | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 4.230 | 4.519 | -6.8  | 98    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.279 | 2.421 | -6.2  | 100   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.868 | 3.060 | -6.7  | 98    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.170 | 0.177 | -4.1  | 101   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.374 | 2.505 | -5.5  | 99    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.488 | 2.629 | -5.7  | 98    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.836 | 3.021 | -6.5  | 98    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.785 | 4.106 | -8.5  | 102   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.147 | 3.402 | -8.1  | 99    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.675 | 1.691 | -1.0  | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.663 | 1.669 | -0.4  | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.922 | 3.176 | -8.7  | 100   | 0.00     |
| 90 T  | Hexachloroethane            | 0.564 | 0.606 | -7.4  | 102   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.425 | 1.445 | -1.4  | 96    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.084 | 0.077 | 8.3   | 90    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.867 | 0.889 | -2.5  | 98    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.447 | 0.475 | -6.3  | 104   | 0.00     |
| 95 T  | Naphthalene                 | 1.610 | 1.655 | -2.8  | 96    | 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 | 0.750 | 0.766 | -2.1 | 96    | 0.00     |

(#) = Out of Range

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