

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY090322\  
 Data File : VY010316.D  
 Acq On : 03 Sep 2022 13:01  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 05 04:14:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090222S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 02 16:41:46 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    | 80    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.399 | 0.391 | 2.0    | 87    | 0.00     |
| 3 P   | Chloromethane               | 0.545 | 0.583 | -7.0   | 92    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.594 | 0.685 | -15.3# | 95    | 0.00     |
| 5 T   | Bromomethane                | 0.377 | 0.433 | -14.9  | 96    | 0.00     |
| 6 T   | Chloroethane                | 0.363 | 0.427 | -17.6  | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.832 | 0.889 | -6.9   | 87    | 0.00     |
| 8 T   | Diethyl Ether               | 0.297 | 0.287 | 3.4    | 80    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.514 | 0.538 | -4.7   | 86    | 0.00     |
| 10 T  | Methyl Iodide               | 0.618 | 0.651 | -5.3   | 80    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.061 | 0.061 | 0.0    | 90    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.498 | 0.504 | -1.2#  | 83    | 0.00     |
| 13 T  | Acrolein                    | 0.065 | 0.061 | 6.2    | 75    | 0.00     |
| 14 T  | Allyl chloride              | 0.876 | 0.813 | 7.2    | 75    | 0.00     |
| 15 T  | Acrylonitrile               | 0.155 | 0.144 | 7.1    | 77    | 0.00     |
| 16 T  | Acetone                     | 0.128 | 0.152 | -18.7  | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.516 | 1.441 | 4.9    | 80    | 0.00     |
| 18 T  | Methyl Acetate              | 0.398 | 0.347 | 12.8   | 74    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.455 | 1.387 | 4.7    | 78    | 0.00     |
| 20 T  | Methylene Chloride          | 0.619 | 0.596 | 3.7    | 83    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.564 | 0.566 | -0.4   | 82    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.780 | 1.724 | 3.1    | 78    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.116 | 1.075 | 3.7    | 78    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.026 | 1.008 | 1.8    | 79    | 0.00     |
| 25 T  | 2-Butanone                  | 0.210 | 0.210 | 0.0    | 80    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.934 | 0.965 | -3.3   | 83    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.645 | 0.655 | -1.6   | 81    | 0.00     |
| 28 T  | Bromochloromethane          | 0.343 | 0.333 | 2.9    | 70    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.135 | 0.122 | 9.6    | 75    | 0.00     |
| 30 C  | Chloroform                  | 1.010 | 1.027 | -1.7#  | 81    | 0.00     |
| 31 T  | Cyclohexane                 | 1.000 | 0.940 | 6.0    | 81    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.920 | 0.951 | -3.4   | 83    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.513 | 0.485 | 5.5    | 74    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 75    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.333 | 0.311 | 6.6    | 76    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.488 | 0.536 | -9.8   | 83    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.280 | 0.279 | 0.4    | 77    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.503 | 0.577 | -14.7  | 86    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.631 | 0.681 | -7.9   | 82    | 0.00     |
| 40 TM | Benzene                     | 1.399 | 1.499 | -7.1   | 81    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.158 | 0.169 | -7.0   | 89    | 0.02     |
| 42 TM | 1,2-Dichloroethane          | 0.406 | 0.435 | -7.1   | 81    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.534 | 0.528 | 1.1    | 76    | 0.00     |
| 44 TM | Trichloroethene             | 0.384 | 0.430 | -12.0  | 84    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.356 | 0.375 | -5.3#  | 80    | 0.00     |
| 46 T  | Dibromomethane              | 0.196 | 0.210 | -7.1   | 82    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.481 | 0.520 | -8.1   | 81    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.249 | 0.251 | -0.8   | 76    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY090322\  
 Data File : VY010316.D  
 Acq On : 03 Sep 2022 13:01  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 05 04:14:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090222S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 02 16:41:46 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                 | 0.003 | 0.003 | 0.0   | 79    | 0.00     |
| 50 S  | Toluene-d8                  | 1.114 | 1.192 | -7.0  | 74    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.275 | 0.281 | -2.2  | 77    | 0.00     |
| 52 CM | Toluene                     | 0.895 | 0.975 | -8.9# | 82    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.519 | 0.547 | -5.4  | 79    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.585 | 0.615 | -5.1  | 79    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.278 | 0.295 | -6.1  | 81    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.410 | 0.411 | -0.2  | 75    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.484 | 0.513 | -6.0  | 80    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.137 | 0.098 | 28.5# | 74    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.191 | 0.202 | -5.8  | 78    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.335 | 0.368 | -9.9  | 83    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.269 | 0.286 | -6.3  | 81    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.517 | 0.421 | 18.6  | 74    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 75    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.408 | 0.467 | -14.5 | 87    | 0.00     |
| 65 PM | Chlorobenzene               | 1.065 | 1.170 | -9.9  | 83    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.391 | 0.436 | -11.5 | 84    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.951 | 2.140 | -9.7# | 83    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.745 | 0.828 | -11.1 | 83    | 0.00     |
| 69 T  | o-Xylene                    | 0.724 | 0.789 | -9.0  | 83    | 0.00     |
| 70 T  | Styrene                     | 1.205 | 1.331 | -10.5 | 83    | 0.00     |
| 71 P  | Bromoform                   | 0.242 | 0.265 | -9.5  | 83    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 77    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.989 | 4.314 | -8.1  | 84    | 0.00     |
| 74 T  | N-amyl acetate              | 1.101 | 1.095 | 0.5   | 78    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.767 | 0.766 | 0.1   | 79    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.595 | 0.591 | 0.7   | 76    | 0.00     |
| 77 T  | Bromobenzene                | 0.907 | 0.969 | -6.8  | 84    | 0.00     |
| 78 T  | n-propylbenzene             | 4.789 | 5.180 | -8.2  | 83    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.707 | 2.866 | -5.9  | 82    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.342 | 3.567 | -6.7  | 83    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.285 | 0.280 | 1.8   | 76    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.787 | 2.954 | -6.0  | 82    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.904 | 3.174 | -9.3  | 85    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.282 | 3.546 | -8.0  | 84    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.294 | 4.710 | -9.7  | 85    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.547 | 3.962 | -11.7 | 85    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.762 | 1.938 | -10.0 | 85    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.752 | 1.917 | -9.4  | 85    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.353 | 3.687 | -10.0 | 85    | 0.00     |
| 90 T  | Hexachloroethane            | 0.681 | 0.736 | -8.1  | 84    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.570 | 1.707 | -8.7  | 85    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.135 | 0.126 | 6.7   | 77    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.972 | 1.048 | -7.8  | 86    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.570 | 0.639 | -12.1 | 90    | 0.00     |
| 95 T  | Naphthalene                 | 2.017 | 2.031 | -0.7  | 81    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY090322\  
Data File : VY010316.D  
Acq On : 03 Sep 2022 13:01  
Operator : KP/MD  
Sample : VSTDCCC050  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
LabSampleId :  
VSTDCCC050

Quant Time: Sep 05 04:14:19 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090222S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 02 16:41:46 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) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.823 | 0.879 | -6.8 | 85    | 0.00     |

(#) = Out of Range

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