

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv071320\  
 Data File : VY003184.D  
 Acq On : 13 Jul 2020 16:24  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 14 04:14:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y071020S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 10 13:18:03 2020  
 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.358 | 0.318 | 11.2  | 104   | 0.00     |
| 3 P   | Chloromethane               | 0.497 | 0.458 | 7.8   | 104   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.510 | 0.473 | 7.3#  | 102   | 0.00     |
| 5 T   | Bromomethane                | 0.379 | 0.357 | 5.8   | 108   | 0.00     |
| 6 T   | Chloroethane                | 0.335 | 0.315 | 6.0   | 103   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.728 | 0.696 | 4.4   | 104   | 0.00     |
| 8 T   | Diethyl Ether               | 0.244 | 0.229 | 6.1   | 102   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.440 | 0.435 | 1.1   | 107   | 0.00     |
| 10 T  | Methyl Iodide               | 0.478 | 0.462 | 3.3   | 97    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.046 | 0.036 | 21.7  | 91    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.416 | 0.408 | 1.9#  | 106   | 0.00     |
| 13 T  | Acrolein                    | 0.040 | 0.038 | 5.0   | 110   | 0.00     |
| 14 T  | Allyl chloride              | 0.617 | 0.621 | -0.6  | 106   | 0.00     |
| 15 T  | Acrylonitrile               | 0.117 | 0.107 | 8.5   | 97    | 0.00     |
| 16 T  | Acetone                     | 0.094 | 0.087 | 7.4   | 96    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.277 | 1.263 | 1.1   | 106   | 0.00     |
| 18 T  | Methyl Acetate              | 0.262 | 0.232 | 11.5  | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.166 | 1.115 | 4.4   | 102   | 0.00     |
| 20 T  | Methylene Chloride          | 0.560 | 0.479 | 14.5  | 103   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.471 | 0.460 | 2.3   | 104   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.370 | 1.388 | -1.3  | 106   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.913 | 0.891 | 2.4   | 101   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.794 | 0.804 | -1.3  | 107   | 0.00     |
| 25 T  | 2-Butanone                  | 0.155 | 0.139 | 10.3  | 96    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.715 | 0.713 | 0.3   | 107   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.518 | 0.521 | -0.6  | 107   | 0.00     |
| 28 T  | Bromochloromethane          | 0.344 | 0.331 | 3.8   | 100   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.104 | 0.093 | 10.6  | 94    | 0.00     |
| 30 C  | Chloroform                  | 0.818 | 0.817 | 0.1#  | 107   | 0.00     |
| 31 T  | Cyclohexane                 | 0.768 | 0.727 | 5.3   | 103   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.736 | 0.736 | 0.0   | 107   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.422 | 0.404 | 4.3   | 101   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.288 | 0.283 | 1.7   | 103   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.453 | 0.454 | -0.2  | 106   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.244 | 0.229 | 6.1   | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.468 | 0.473 | -1.1  | 105   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.569 | 0.571 | -0.4  | 106   | 0.00     |
| 40 TM | Benzene                     | 1.248 | 1.249 | -0.1  | 106   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.147 | 0.144 | 2.0   | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.384 | 0.373 | 2.9   | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.472 | 0.440 | 6.8   | 98    | 0.00     |
| 44 TM | Trichloroethene             | 0.383 | 0.375 | 2.1   | 104   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.323 | 0.327 | -1.2# | 107   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv071320\  
 Data File : VY003184.D  
 Acq On : 13 Jul 2020 16:24  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 14 04:14:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y071020S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 10 13:18:03 2020  
 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.189 | 0.183 | 3.2   | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.448 | 0.451 | -0.7  | 106   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.211 | 0.202 | 4.3   | 99    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 98    | 0.00     |
| 50 S  | Toluene-d8                  | 1.070 | 1.036 | 3.2   | 103   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.246 | 0.227 | 7.7   | 96    | 0.00     |
| 52 CM | Toluene                     | 0.798 | 0.795 | 0.4#  | 105   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.465 | 0.465 | 0.0   | 104   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.535 | 0.535 | 0.0   | 105   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.267 | 0.256 | 4.1   | 103   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.363 | 0.355 | 2.2   | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.453 | 0.436 | 3.8   | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.185 | 0.176 | 4.9   | 99    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.171 | 0.156 | 8.8   | 95    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.336 | 0.328 | 2.4   | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.264 | 0.249 | 5.7   | 101   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.386 | 0.370 | 4.1   | 104   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.446 | 0.434 | 2.7   | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 0.963 | 0.959 | 0.4   | 106   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.374 | 0.376 | -0.5  | 107   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.720 | 1.731 | -0.6# | 106   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.653 | 0.660 | -1.1  | 107   | 0.00     |
| 69 T  | o-Xylene                    | 0.610 | 0.615 | -0.8  | 106   | 0.00     |
| 70 T  | Styrene                     | 1.043 | 1.062 | -1.8  | 106   | 0.00     |
| 71 P  | Bromoform                   | 0.246 | 0.234 | 4.9   | 98    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.186 | 3.233 | -1.5  | 105   | 0.00     |
| 74 T  | N-amyl acetate              | 0.894 | 0.872 | 2.5   | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.615 | 0.581 | 5.5   | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.443 | 0.461 | -4.1  | 109   | 0.00     |
| 77 T  | Bromobenzene                | 0.812 | 0.819 | -0.9  | 105   | 0.00     |
| 78 T  | n-propylbenzene             | 3.756 | 3.864 | -2.9  | 106   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.096 | 2.131 | -1.7  | 106   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.656 | 2.719 | -2.4  | 106   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.227 | 0.216 | 4.8   | 97    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.187 | 2.246 | -2.7  | 106   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.343 | 2.379 | -1.5  | 104   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.672 | 2.740 | -2.5  | 106   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.221 | 3.328 | -3.3  | 107   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.007 | 3.077 | -2.3  | 105   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.536 | 1.533 | 0.2   | 104   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.521 | 1.518 | 0.2   | 105   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.829 | 2.918 | -3.1  | 105   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv071320\  
Data File : VY003184.D  
Acq On : 13 Jul 2020 16:24  
Operator : SY/MD  
Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA Y/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
LabSampleId :  
VSTDCCC050

Quant Time: Jul 14 04:14:57 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y071020S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 10 13:18:03 2020  
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) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.548 | 0.570 | -4.0 | 106   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.348 | 1.352 | -0.3 | 104   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.100 | 0.084 | 16.0 | 89    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.959 | 0.929 | 3.1  | 101   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.657 | 0.662 | -0.8 | 106   | 0.00     |
| 95 T | Naphthalene                 | 1.585 | 1.439 | 9.2  | 95    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.758 | 0.693 | 8.6  | 96    | 0.00     |

(#) = Out of Range

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