

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101020\  
 Data File : VW016871.D  
 Acq On : 09 Oct 2020 20:05  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 12 15:05:43 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W101020S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 12 14:54:12 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  | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.273 | 0.242 | 11.4 | 97    | 0.00     |
| 3 P   | Chloromethane               | 0.299 | 0.278 | 7.0  | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.432 | 0.406 | 6.0# | 93    | 0.00     |
| 5 T   | Bromomethane                | 0.332 | 0.314 | 5.4  | 94    | 0.00     |
| 6 T   | Chloroethane                | 0.275 | 0.268 | 2.5  | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.315 | 0.315 | 0.0  | 93    | 0.00     |
| 8 T   | Diethyl Ether               | 0.197 | 0.192 | 2.5  | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.424 | 0.396 | 6.6  | 91    | 0.00     |
| 10 T  | Methyl Iodide               | 0.678 | 0.667 | 1.6  | 93    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.020 | 0.021 | -5.0 | 94    | -0.05    |
| 12 CM | 1,1-Dichloroethene          | 0.418 | 0.404 | 3.3# | 93    | 0.00     |
| 13 T  | Acrolein                    | 0.027 | 0.029 | -7.4 | 107   | 0.00     |
| 14 T  | Allyl chloride              | 0.501 | 0.493 | 1.6  | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 0.065 | 0.069 | -6.2 | 93    | 0.00     |
| 16 T  | Acetone                     | 0.066 | 0.064 | 3.0  | 88    | -0.02    |
| 17 T  | Carbon Disulfide            | 1.113 | 1.077 | 3.2  | 92    | 0.00     |
| 18 T  | Methyl Acetate              | 0.151 | 0.165 | -9.3 | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.451 | 0.477 | -5.8 | 96    | 0.00     |
| 20 T  | Methylene Chloride          | 0.522 | 0.439 | 15.9 | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.470 | 0.453 | 3.6  | 91    | 0.00     |
| 22 T  | Diisopropyl ether           | 0.910 | 0.901 | 1.0  | 92    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.583 | 0.588 | -0.9 | 89    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.722 | 0.702 | 2.8  | 93    | 0.00     |
| 25 T  | 2-Butanone                  | 0.088 | 0.092 | -4.5 | 92    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.442 | 0.422 | 4.5  | 92    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.503 | 0.492 | 2.2  | 92    | 0.00     |
| 28 T  | Bromochloromethane          | 0.289 | 0.311 | -7.6 | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.049 | 0.053 | -8.2 | 95    | 0.00     |
| 30 C  | Chloroform                  | 0.785 | 0.762 | 2.9# | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 0.616 | 0.558 | 9.4  | 92    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.662 | 0.655 | 1.1  | 94    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.407 | 0.425 | -4.4 | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0  | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.306 | 0.323 | -5.6 | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.432 | 0.424 | 1.9  | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.141 | 0.147 | -4.3 | 92    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.449 | 0.448 | 0.2  | 95    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.493 | 0.482 | 2.2  | 91    | 0.00     |
| 40 TM | Benzene                     | 1.204 | 1.177 | 2.2  | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.084 | 0.087 | -3.6 | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.329 | 0.325 | 1.2  | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.271 | 0.283 | -4.4 | 92    | 0.00     |
| 44 TM | Trichloroethene             | 0.373 | 0.364 | 2.4  | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.275 | 0.265 | 3.6# | 91    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101020\  
 Data File : VW016871.D  
 Acq On : 09 Oct 2020 20:05  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 12 15:05:43 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W101020S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 12 14:54:12 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              | 0.157 | 0.158 | -0.6  | 92    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.391 | 0.386 | 1.3   | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.125 | 0.133 | -6.4  | 92    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 94    | -0.02    |
| 50 S  | Toluene-d8                  | 1.149 | 1.224 | -6.5  | 99    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.137 | 0.142 | -3.6  | 90    | 0.00     |
| 52 CM | Toluene                     | 0.796 | 0.788 | 1.0#  | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.356 | 0.361 | -1.4  | 89    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.434 | 0.443 | -2.1  | 91    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.224 | 0.223 | 0.4   | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.243 | 0.257 | -5.8  | 91    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.370 | 0.367 | 0.8   | 89    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.135 | 0.144 | -6.7  | 95    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.091 | 0.096 | -5.5  | 89    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.274 | 0.278 | -1.5  | 91    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.221 | 0.223 | -0.9  | 91    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.396 | 0.421 | -6.3  | 95    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.356 | 0.358 | -0.6  | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 0.981 | 0.970 | 1.1   | 91    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.347 | 0.348 | -0.3  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.709 | 1.736 | -1.6# | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.665 | 0.671 | -0.9  | 92    | 0.00     |
| 69 T  | o-Xylene                    | 0.610 | 0.621 | -1.8  | 91    | 0.00     |
| 70 T  | Styrene                     | 1.015 | 1.034 | -1.9  | 90    | 0.00     |
| 71 P  | Bromoform                   | 0.174 | 0.183 | -5.2  | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.323 | 3.458 | -4.1  | 93    | 0.00     |
| 74 T  | N-amyl acetate              | 0.534 | 0.563 | -5.4  | 88    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.521 | 0.537 | -3.1  | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.373 | 0.382 | -2.4  | 92    | 0.00     |
| 77 T  | Bromobenzene                | 0.822 | 0.843 | -2.6  | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 3.833 | 3.938 | -2.7  | 92    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.186 | 2.176 | 0.5   | 90    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.785 | 2.881 | -3.4  | 92    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.139 | 0.151 | -8.6  | 88    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.257 | 2.282 | -1.1  | 91    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.419 | 2.506 | -3.6  | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.775 | 2.829 | -1.9  | 90    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.367 | 3.421 | -1.6  | 91    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.135 | 3.225 | -2.9  | 92    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.589 | 1.607 | -1.1  | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.565 | 1.570 | -0.3  | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.825 | 2.828 | -0.1  | 87    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101020\  
Data File : VW016871.D  
Acq On : 09 Oct 2020 20:05  
Operator : SY/VA  
Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
LabSampleId :  
VSTDCCC050

Quant Time: Oct 12 15:05:43 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W101020S.M  
Quant Title : SW846 8260  
QLast Update : Mon Oct 12 14:54:12 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            | 0.484 | 0.504 | -4.1  | 91    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.371 | 1.363 | 0.6   | 90    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.080 | 0.086 | -7.5  | 90    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.946 | 1.013 | -7.1  | 92    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.613 | 0.626 | -2.1  | 93    | 0.00     |
| 95 T | Naphthalene                 | 1.537 | 1.720 | -11.9 | 92    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.823 | 0.854 | -3.8  | 92    | 0.00     |

(#) = Out of Range

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