

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv091919\  
 Data File : VY000070.D  
 Acq On : 19 Sep 2019 12:05  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.00ml/MSVOA Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 20 02:03:18 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y091719S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 05:38:39 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% 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     | 0.391 | 0.321 | 17.9  | 87    | 0.00     |
| 3 P   | Chloromethane               | 0.573 | 0.407 | 29.0# | 86    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.558 | 0.461 | 17.4# | 88    | 0.00     |
| 5 T   | Bromomethane                | 0.363 | 0.301 | 17.1  | 86    | 0.00     |
| 6 T   | Chloroethane                | 0.374 | 0.318 | 15.0  | 89    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.771 | 0.663 | 14.0  | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 0.330 | 0.300 | 9.1   | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.529 | 0.481 | 9.1   | 90    | 0.00     |
| 10 T  | Methyl Iodide               | 0.550 | 0.511 | 7.1   | 86    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.068 | 0.063 | 7.4   | 87    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.488 | 0.423 | 13.3# | 88    | 0.00     |
| 13 T  | Acrolein                    | 0.040 | 0.022 | 45.0# | 73    | 0.00     |
| 14 T  | Allyl chloride              | 0.746 | 0.681 | 8.7   | 91    | 0.00     |
| 15 T  | Acrylonitrile               | 0.198 | 0.185 | 6.6   | 90    | 0.00     |
| 16 T  | Acetone                     | 0.134 | 0.123 | 8.2   | 86    | 0.00     |
| 17 T  | Carbon Disulfide            | 0.950 | 0.774 | 18.5  | 86    | 0.00     |
| 18 T  | Methyl Acetate              | 0.447 | 0.400 | 10.5  | 94    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.525 | 1.452 | 4.8   | 91    | 0.00     |
| 20 T  | Methylene Chloride          | 0.630 | 0.559 | 11.3  | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.542 | 0.472 | 12.9  | 88    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.685 | 1.598 | 5.2   | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.128 | 1.096 | 2.8   | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.997 | 0.923 | 7.4   | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 0.243 | 0.224 | 7.8   | 89    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.941 | 0.811 | 13.8  | 91    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.687 | 0.635 | 7.6   | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 0.462 | 0.468 | -1.3  | 102   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.146 | 0.140 | 4.1   | 93    | 0.00     |
| 30 C  | Chloroform                  | 1.029 | 0.957 | 7.0#  | 90    | 0.00     |
| 31 T  | Cyclohexane                 | 0.812 | 0.692 | 14.8  | 95    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.836 | 0.780 | 6.7   | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.575 | 0.554 | 3.7   | 105   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 102   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.303 | 0.276 | 8.9   | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.374 | 0.337 | 9.9   | 90    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.249 | 0.239 | 4.0   | 91    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.353 | 0.336 | 4.8   | 92    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.460 | 0.405 | 12.0  | 88    | 0.00     |
| 40 TM | Benzene                     | 1.235 | 1.119 | 9.4   | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.150 | 0.120 | 20.0  | 77    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.327 | 0.304 | 7.0   | 92    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.487 | 0.468 | 3.9   | 92    | 0.00     |
| 44 TM | Trichloroethene             | 0.315 | 0.291 | 7.6   | 92    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.320 | 0.287 | 10.3# | 88    | 0.00     |

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|       | Compound                    | AvqRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 46 T  | Dibromomethane              | 0.175 | 0.159 | 9.1  | 89    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.424 | 0.402 | 5.2  | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.214 | 0.205 | 4.2  | 91    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0  | 81    | 0.00     |
| 50 S  | Toluene-d8                  | 1.189 | 1.146 | 3.6  | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.266 | 0.260 | 2.3  | 92    | 0.00     |
| 52 CM | Toluene                     | 0.785 | 0.719 | 8.4# | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.450 | 0.415 | 7.8  | 90    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.519 | 0.488 | 6.0  | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.274 | 0.263 | 4.0  | 89    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.390 | 0.371 | 4.9  | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.460 | 0.421 | 8.5  | 91    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.211 | 0.213 | -0.9 | 97    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.190 | 0.192 | -1.1 | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.287 | 0.281 | 2.1  | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.250 | 0.239 | 4.4  | 92    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.441 | 0.401 | 9.1  | 103   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 102   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.314 | 0.298 | 5.1  | 92    | 0.00     |
| 65 PM | Chlorobenzene               | 0.989 | 0.927 | 6.3  | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.334 | 0.330 | 1.2  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.765 | 1.626 | 7.9# | 89    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.672 | 0.629 | 6.4  | 89    | 0.00     |
| 69 T  | o-Xylene                    | 0.650 | 0.615 | 5.4  | 91    | 0.00     |
| 70 T  | Styrene                     | 1.142 | 1.095 | 4.1  | 91    | 0.00     |
| 71 P  | Bromoform                   | 0.194 | 0.200 | -3.1 | 96    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 103   | 0.00     |
| 73 T  | Isopropylbenzene            | 4.030 | 3.657 | 9.3  | 90    | 0.00     |
| 74 T  | N-amyl acetate              | 1.148 | 1.120 | 2.4  | 93    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.949 | 0.876 | 7.7  | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.703 | 0.563 | 19.9 | 76    | 0.00     |
| 77 T  | Bromobenzene                | 0.841 | 0.804 | 4.4  | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 4.915 | 4.491 | 8.6  | 90    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.748 | 2.518 | 8.4  | 91    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.338 | 3.043 | 8.8  | 90    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.366 | 0.330 | 9.8  | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.841 | 2.649 | 6.8  | 92    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.856 | 2.682 | 6.1  | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.291 | 3.041 | 7.6  | 90    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.219 | 3.837 | 9.1  | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.576 | 3.327 | 7.0  | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.669 | 1.568 | 6.1  | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.677 | 1.608 | 4.1  | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.679 | 3.443 | 6.4  | 91    | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.703 | 0.676 | 3.8  | 91    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.568 | 1.494 | 4.7  | 95    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.169 | 0.167 | 1.2  | 95    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.946 | 0.964 | -1.9 | 97    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.454 | 0.445 | 2.0  | 94    | 0.00     |
| 95 T | Naphthalene                 | 2.686 | 2.507 | 6.7  | 91    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.903 | 0.873 | 3.3  | 94    | 0.00     |

(#) = Out of Range

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