

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv020720\  
 Data File : VY001576.D  
 Acq On : 07 Feb 2020 23:25  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 08 04:23:58 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y020420S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 04 15:10:08 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    | 74    | 0.02     |
| 2 T   | Dichlorodifluoromethane     | 0.489 | 0.430 | 12.1   | 63    | 0.00     |
| 3 P   | Chloromethane               | 0.512 | 0.600 | -17.2  | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.531 | 0.598 | -12.6# | 82    | 0.01     |
| 5 T   | Bromomethane                | 0.334 | 0.414 | -24.0  | 89    | 0.01     |
| 6 T   | Chloroethane                | 0.320 | 0.389 | -21.6  | 88    | 0.01     |
| 7 T   | Trichlorofluoromethane      | 0.879 | 0.777 | 11.6   | 65    | 0.01     |
| 8 T   | Diethyl Ether               | 0.297 | 0.323 | -8.8   | 82    | 0.01     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.529 | 0.493 | 6.8    | 68    | 0.02     |
| 10 T  | Methyl Iodide               | 0.674 | 0.628 | 6.8    | 65    | 0.02     |
| 11 T  | Tert butyl alcohol          | 0.077 | 0.059 | 23.4   | 86    | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 0.526 | 0.499 | 5.1#   | 69    | 0.02     |
| 13 T  | Acrolein                    | 0.048 | 0.053 | -10.4  | 88    | 0.02     |
| 14 T  | Allyl chloride              | 0.804 | 0.901 | -12.1  | 83    | 0.02     |
| 15 T  | Acrylonitrile               | 0.136 | 0.173 | -27.2# | 98    | 0.02     |
| 16 T  | Acetone                     | 0.146 | 0.129 | 11.6   | 67    | 0.02     |
| 17 T  | Carbon Disulfide            | 1.673 | 1.642 | 1.9    | 71    | 0.02     |
| 18 T  | Methyl Acetate              | 0.311 | 0.389 | -25.1# | 100   | 0.02     |
| 19 T  | Methyl tert-butyl Ether     | 1.398 | 1.497 | -7.1   | 81    | 0.02     |
| 20 T  | Methylene Chloride          | 0.655 | 0.603 | 7.9    | 75    | 0.03     |
| 21 T  | trans-1,2-Dichloroethene    | 0.584 | 0.585 | -0.2   | 74    | 0.02     |
| 22 T  | Diisopropyl ether           | 1.593 | 1.949 | -22.3  | 90    | 0.02     |
| 23 T  | Vinyl Acetate               | 1.014 | 1.313 | -29.5# | 97    | 0.02     |
| 24 P  | 1,1-Dichloroethane          | 0.958 | 1.021 | -6.6   | 79    | 0.03     |
| 25 T  | 2-Butanone                  | 0.189 | 0.227 | -20.1  | 92    | 0.02     |
| 26 T  | 2,2-Dichloropropane         | 0.917 | 0.806 | 12.1   | 67    | 0.03     |
| 27 T  | cis-1,2-Dichloroethene      | 0.638 | 0.656 | -2.8   | 77    | 0.02     |
| 28 T  | Bromochloromethane          | 0.326 | 0.459 | -40.8# | 95    | 0.02     |
| 29 T  | Tetrahydrofuran             | 0.113 | 0.156 | -38.1# | 108   | 0.02     |
| 30 C  | Chloroform                  | 0.971 | 0.994 | -2.4#  | 75    | 0.02     |
| 31 T  | Cyclohexane                 | 0.980 | 0.960 | 2.0    | 75    | 0.02     |
| 32 T  | 1,1,1-Trichloroethane       | 0.880 | 0.832 | 5.5    | 69    | 0.02     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.503 | 0.590 | -17.3  | 88    | 0.02     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 78    | 0.02     |
| 35 S  | Dibromofluoromethane        | 0.288 | 0.298 | -3.5   | 83    | 0.02     |
| 36 T  | 1,1-Dichloropropene         | 0.457 | 0.431 | 5.7    | 72    | 0.02     |
| 37 T  | Ethyl Acetate               | 0.221 | 0.283 | -28.1# | 105   | 0.02     |
| 38 T  | Carbon Tetrachloride        | 0.443 | 0.384 | 13.3   | 66    | 0.02     |
| 39 T  | Methylcyclohexane           | 0.602 | 0.555 | 7.8    | 70    | 0.02     |
| 40 TM | Benzene                     | 1.305 | 1.342 | -2.8   | 79    | 0.02     |
| 41 T  | Methacrylonitrile           | 0.103 | 0.135 | -31.1# | 92    | 0.02     |
| 42 TM | 1,2-Dichloroethane          | 0.363 | 0.378 | -4.1   | 83    | 0.02     |
| 43 T  | Isopropyl Acetate           | 0.438 | 0.544 | -24.2  | 101   | 0.02     |
| 44 TM | Trichloroethene             | 0.352 | 0.332 | 5.7    | 73    | 0.02     |
| 45 C  | 1,2-Dichloropropane         | 0.315 | 0.342 | -8.6#  | 85    | 0.02     |

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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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 46 T  | Dibromomethane              | 0.177 | 0.184 | -4.0   | 82    | 0.02     |
| 47 T  | Bromodichloromethane        | 0.431 | 0.434 | -0.7   | 78    | 0.02     |
| 48 T  | Methyl methacrylate         | 0.199 | 0.246 | -23.6  | 100   | 0.02     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.003 | -50.0# | 91    | 0.02     |
| 50 S  | Toluene-d8                  | 1.091 | 1.217 | -11.5  | 84    | 0.02     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.216 | 0.285 | -31.9# | 108   | 0.01     |
| 52 CM | Toluene                     | 0.828 | 0.834 | -0.7#  | 78    | 0.01     |
| 53 T  | t-1,3-Dichloropropene       | 0.469 | 0.479 | -2.1   | 80    | 0.02     |
| 54 T  | cis-1,3-Dichloropropene     | 0.539 | 0.544 | -0.9   | 78    | 0.02     |
| 55 T  | 1,1,2-Trichloroethane       | 0.254 | 0.272 | -7.1   | 84    | 0.01     |
| 56 T  | Ethyl methacrylate          | 0.361 | 0.412 | -14.1  | 89    | 0.02     |
| 57 T  | 1,3-Dichloropropane         | 0.447 | 0.478 | -6.9   | 84    | 0.02     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.133 | 0.160 | -20.3  | 94    | 0.02     |
| 59 T  | 2-Hexanone                  | 0.157 | 0.199 | -26.8# | 101   | 0.02     |
| 60 T  | Dibromochloromethane        | 0.299 | 0.301 | -0.7   | 78    | 0.02     |
| 61 T  | 1,2-Dibromoethane           | 0.250 | 0.262 | -4.8   | 82    | 0.02     |
| 62 S  | 4-Bromofluorobenzene        | 0.430 | 0.438 | -1.9   | 83    | 0.01     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 82    | 0.01     |
| 64 T  | Tetrachloroethene           | 0.328 | 0.289 | 11.9   | 71    | 0.01     |
| 65 PM | Chlorobenzene               | 0.982 | 0.948 | 3.5    | 77    | 0.01     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.344 | 0.332 | 3.5    | 78    | 0.02     |
| 67 C  | Ethyl Benzene               | 1.815 | 1.749 | 3.6#   | 78    | 0.01     |
| 68 T  | m/p-Xylenes                 | 0.681 | 0.657 | 3.5    | 78    | 0.01     |
| 69 T  | o-Xylene                    | 0.643 | 0.631 | 1.9    | 78    | 0.01     |
| 70 T  | Styrene                     | 1.111 | 1.116 | -0.5   | 81    | 0.01     |
| 71 P  | Bromoform                   | 0.191 | 0.200 | -4.7   | 84    | 0.02     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 86    | 0.01     |
| 73 T  | Isopropylbenzene            | 3.813 | 3.455 | 9.4    | 76    | 0.01     |
| 74 T  | N-amyl acetate              | 0.991 | 1.204 | -21.5  | 106   | 0.01     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.725 | 0.781 | -7.7   | 94    | 0.01     |
| 76 T  | 1,2,3-Trichloropropane      | 0.538 | 0.570 | -5.9   | 92    | 0.01     |
| 77 T  | Bromobenzene                | 0.825 | 0.782 | 5.2    | 79    | 0.01     |
| 78 T  | n-propylbenzene             | 4.565 | 4.241 | 7.1    | 78    | 0.02     |
| 79 T  | 2-Chlorotoluene             | 2.602 | 2.423 | 6.9    | 79    | 0.02     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.212 | 2.914 | 9.3    | 76    | 0.01     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.278 | 0.281 | -1.1   | 88    | 0.01     |
| 82 T  | 4-Chlorotoluene             | 2.728 | 2.541 | 6.9    | 79    | 0.01     |
| 83 T  | tert-Butylbenzene           | 2.715 | 2.470 | 9.0    | 76    | 0.01     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.179 | 2.931 | 7.8    | 78    | 0.01     |
| 85 T  | sec-Butylbenzene            | 3.817 | 3.522 | 7.7    | 77    | 0.01     |
| 86 T  | p-Isopropyltoluene          | 3.363 | 3.098 | 7.9    | 77    | 0.01     |
| 87 T  | 1,3-Dichlorobenzene         | 1.582 | 1.505 | 4.9    | 81    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.584 | 1.518 | 4.2    | 82    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.319 | 3.064 | 7.7    | 78    | 0.01     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.646 | 0.590 | 8.7  | 76    | 0.01     |
| 91 T | 1,2-Dichlorobenzene         | 1.433 | 1.410 | 1.6  | 84    | 0.01     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.134 | 0.131 | 2.2  | 88    | 0.01     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.966 | 0.897 | 7.1  | 80    | 0.01     |
| 94 T | Hexachlorobutadiene         | 0.490 | 0.427 | 12.9 | 74    | 0.01     |
| 95 T | Naphthalene                 | 2.270 | 2.176 | 4.1  | 88    | 0.01     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.853 | 0.800 | 6.2  | 83    | 0.01     |

(#) = Out of Range

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