

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv102819\  
 Data File : VY000447.D  
 Acq On : 28 Oct 2019 11:48  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 29 10:06:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y101119S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 17 02:03:07 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    | 78    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.446 | 0.308 | 30.9#  | 61    | 0.00     |
| 3 P   | Chloromethane               | 0.611 | 0.700 | -14.6  | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.617 | 0.526 | 14.7#  | 70    | 0.00     |
| 5 T   | Bromomethane                | 0.457 | 0.650 | -42.2# | 129   | 0.00     |
| 6 T   | Chloroethane                | 0.398 | 0.355 | 10.8   | 72    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.843 | 0.787 | 6.6    | 75    | 0.00     |
| 8 T   | Diethyl Ether               | 0.298 | 0.306 | -2.7   | 84    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.512 | 0.505 | 1.4    | 79    | 0.00     |
| 10 T  | Methyl Iodide               | 0.668 | 0.756 | -13.2  | 79    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.055 | 0.071 | -29.1# | 99    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.505 | 0.464 | 8.1#   | 73    | 0.00     |
| 13 T  | Acrolein                    | 0.065 | 0.045 | 30.8#  | 54    | -0.01    |
| 14 T  | Allyl chloride              | 0.837 | 0.817 | 2.4    | 79    | 0.00     |
| 15 T  | Acrylonitrile               | 0.167 | 0.178 | -6.6   | 82    | -0.01    |
| 16 T  | Acetone                     | 0.171 | 0.200 | -17.0  | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.590 | 1.262 | 20.6#  | 65    | 0.00     |
| 18 T  | Methyl Acetate              | 0.424 | 0.428 | -0.9   | 86    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.406 | 1.484 | -5.5   | 84    | -0.01    |
| 20 T  | Methylene Chloride          | 0.700 | 0.552 | 21.1#  | 76    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.579 | 0.556 | 4.0    | 78    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.770 | 1.894 | -7.0   | 85    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.155 | 1.233 | -6.8   | 82    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.966 | 0.986 | -2.1   | 81    | -0.01    |
| 25 T  | 2-Butanone                  | 0.241 | 0.274 | -13.7  | 85    | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 0.890 | 0.883 | 0.8    | 81    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.627 | 0.634 | -1.1   | 81    | -0.01    |
| 28 T  | Bromochloromethane          | 0.415 | 0.430 | -3.6   | 80    | -0.01    |
| 29 T  | Tetrahydrofuran             | 0.146 | 0.156 | -6.8   | 82    | 0.00     |
| 30 C  | Chloroform                  | 0.973 | 1.017 | -4.5#  | 82    | 0.00     |
| 31 T  | Cyclohexane                 | 1.009 | 0.924 | 8.4    | 76    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.865 | 0.894 | -3.4   | 81    | -0.01    |
| 33 S  | 1,2-Dichloroethane-d4       | 0.527 | 0.534 | -1.3   | 77    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 76    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.302 | 0.307 | -1.7   | 78    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.490 | 0.485 | 1.0    | 79    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.290 | 0.319 | -10.0  | 83    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.474 | 0.492 | -3.8   | 81    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.641 | 0.626 | 2.3    | 76    | 0.00     |
| 40 TM | Benzene                     | 1.415 | 1.447 | -2.3   | 80    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.138 | 0.151 | -9.4   | 84    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.404 | 0.422 | -4.5   | 81    | -0.01    |
| 43 T  | Isopropyl Acetate           | 0.551 | 0.616 | -11.8  | 84    | -0.01    |
| 44 TM | Trichloroethene             | 0.397 | 0.385 | 3.0    | 75    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.347 | 0.381 | -9.8#  | 84    | 0.00     |

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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) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 46 T  | Dibromomethane              | 0.194 | 0.207 | -6.7   | 83    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.457 | 0.493 | -7.9   | 83    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.242 | 0.264 | -9.1   | 82    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0    | 78    | 0.00     |
| 50 S  | Toluene-d8                  | 1.160 | 1.200 | -3.4   | 74    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.284 | 0.332 | -16.9  | 86    | 0.00     |
| 52 CM | Toluene                     | 0.898 | 0.937 | -4.3#  | 81    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.490 | 0.553 | -12.9  | 85    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.557 | 0.608 | -9.2   | 82    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.282 | 0.306 | -8.5   | 85    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.402 | 0.452 | -12.4  | 83    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.485 | 0.533 | -9.9   | 84    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.160 | 0.195 | -21.9# | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.200 | 0.261 | -30.5# | 94    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.313 | 0.354 | -13.1  | 86    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.271 | 0.296 | -9.2   | 83    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.441 | 0.446 | -1.1   | 78    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 80    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.476 | 0.403 | 15.3   | 68    | 0.00     |
| 65 PM | Chlorobenzene               | 1.055 | 1.080 | -2.4   | 83    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.371 | 0.379 | -2.2   | 82    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.956 | 1.993 | -1.9#  | 81    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.748 | 0.768 | -2.7   | 82    | 0.00     |
| 69 T  | o-Xylene                    | 0.713 | 0.735 | -3.1   | 83    | 0.00     |
| 70 T  | Styrene                     | 1.203 | 1.271 | -5.7   | 84    | 0.00     |
| 71 P  | Bromoform                   | 0.213 | 0.242 | -13.6  | 86    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 80    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.899 | 3.981 | -2.1   | 83    | 0.00     |
| 74 T  | N-amyl acetate              | 0.957 | 1.247 | -30.3# | 96    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.732 | 0.865 | -18.2  | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.615 | 0.649 | -5.5   | 81    | 0.00     |
| 77 T  | Bromobenzene                | 0.868 | 0.898 | -3.5   | 85    | 0.00     |
| 78 T  | n-propylbenzene             | 4.681 | 4.831 | -3.2   | 83    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.585 | 2.669 | -3.2   | 83    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.269 | 3.368 | -3.0   | 83    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.281 | 0.301 | -7.1   | 81    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.733 | 2.812 | -2.9   | 83    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.768 | 2.890 | -4.4   | 84    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.227 | 3.355 | -4.0   | 83    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.005 | 4.156 | -3.8   | 82    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.492 | 3.696 | -5.8   | 83    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.709 | 1.773 | -3.7   | 85    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.708 | 1.780 | -4.2   | 85    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.450 | 3.636 | -5.4   | 83    | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.647 | 0.716 | -10.7 | 86    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.547 | 1.649 | -6.6  | 84    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.139 | 0.145 | -4.3  | 83    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.077 | 1.132 | -5.1  | 87    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.583 | 0.568 | 2.6   | 79    | 0.00     |
| 95 T | Naphthalene                 | 2.403 | 2.611 | -8.7  | 88    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.971 | 1.009 | -3.9  | 85    | 0.00     |

(#) = Out of Range

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